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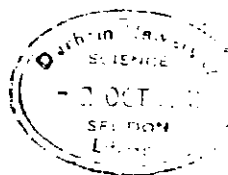
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AN INVESTIGATION OF DERMATOGLYPHIC VARIATION
AMONG ETHNIC POPULATIONS IN KENYA

P.J. ROSA

VOL II



Thesis submitted for the degree of
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Department of Anthropology
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T A B L E S

Table I.1: Major human biological surveys of Kenyan populations
up to the commencement of present survey (1973)

<u>AUTHOR</u>	<u>NOTES</u>
1. Johnston, 1902.	Anthropometric measurements (large range) from Kenya and Uganda. Kenyan samples include Luyia, Swahili, Pokot, Maasai, Ogiek, Tugen, Nandi, Kipsigis. Samples mostly males, with small sample sizes often under 10.
2. Leys and Joyce, 1913.	Five anthropometric measurements from large range of East African populations. Kenyan samples are: Somali, Turkana, Pokot, Nandi, Tugen, Pokot, Njemps, Luo, Luyia (general), Luyia (Kakamega), Kikuyu, Embu, Kamba, Bajun, Giriama, Duruma, Digo, Rabai, Segeju - also non African Arab and Asian samples. Samples are male only, drawn from prisoners, police recruits and hospital patients. Nilotic and Cushitic samples are small, but the Bantu samples are large exceeding 350 for the Kikuyu. Total sample for African exceeds 1000.
3. Elsdon-Dew, 1939.	ABO bloodgroups. Sampled Luo, Kamba, Kikuyu, Gusii. Large samples of over 400.
4. Field, 1952.	Haircolour and form, eye colour, nose profile, teeth, anthropometric measurements for varying sample sizes of Maasai (maximum number 149), collected in the field at Kadjiado, Ngong and Selengei.
5. Allison, <u>et.al.</u> , 1952.	ABO, Rhesus, MN bloodgroups from large Luo, Maasai and Kikuyu samples.
6. Danby, 1953.	Stature, weight and somatypic data from 98 tribal Kikuyu, 68 prison Kikuyu, 32 prison Luo, 14 prison Maasai and 5 prison Lumbwa (Kipsigis).

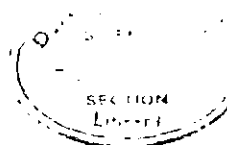


Table I.1 (continued)

<u>AUTHOR</u>	<u>NOTES</u>
7. Foy, <u>et.al.</u> , 1954.	ABO blood groups and sickle cell haemoglobin. Sampled Boni, Sanye, Chonyi, Duruma, Giriama, Jibana, Kambe, Kauma, Rabai, Ribe, Pokomo, Swahili, Bajun, Galla, Kipsigis, Luo, Digo, Luyia (Kakamega), Kamba, Kikuyu. Sample sizes medium to large, mostly ranging between 50 and 100.
8. Allison & Barnicot, 1960.	Haptoglobins and transferrins from 50 Maasai hospital patients collected in Kampala.
9. Allison, 1960.	G6PD deficiency in Digo, Giriama and Kikuyu samples of both sexes.
10. Buettner-Janusch, <u>et.al.</u> , 1960.	ABO, MN, P, K, Diego bloodgroups from 86 Maasai (ABO only), 50 Kamba and 42 Pokomo/Giriama.
11. Buettner-Janusch & Buettner-Janusch, 1970.	240 African hospital patients examined for haemoglobin, haptoglobin, and transferrin phenotypes. Tribal samples deduced from names on register, and include 27 Nilo-Hamites, 44 Nilotes, 97 Central Bantu and 20 Nyanza Bantu.
12. Corrain (see bibliography)	In a series of fieldwork trips into Northern Kenya Corrain collected detailed anthropometric and serological data from Nyandarua Kikuyu, El Molo, Samburu, Rendille, Somali, Gabbra, Boran and southern Central Bantu samples. The results were mostly published after the present survey was started, and are too numerous to summarise here.

Table 1.1 The peoples of Kenya and their linguistic classification

A) NIGER-CONGO LANGUAGE FAMILY

Major Division present in Kenya: BENUE-CONGO
 Sub-Division present in Kenya: BANTU

BANTU LINGUISTIC GROUPS

INTERLACUSTRINE	HIGHLAND	COASTAL
Luyia Group:	Central Bantu Group.	Swahili Group:
Bukusu	Kikuyu sub-group:	Swahili
Wanga		Bajun
Bukhayo	Karura (Kiambu)	
Marach	Metume (Muranga)	Mji Kenda Group:
Samia	Gaki (Nyeri)	
Bunyala (north)	Ndia	Giriana
Busonga	Gichugu	Duruma
Marama		Digo
Kisa	Embu	Chonyi
Bunyore	Mbere	Kauma
Maragoli	Kamba	Kambe
Tiriki		Jibana
Idakho	Meru sub-group:	Rabai
Isukhe		Ribe
Butsotso	Chuka	
Bunyala (south)	Muthambi	Pokomo Group:
Kabras	Mwimbi	
Tachoni	Igoji	Zubaki
	Mlutoni	Malalulu
	Imenti	Ndura
	Igembe	Kinakombe
	Tigania	Gwano
		Ndira
	Tharaka	Mwina
		Ngatana
	Coastal sub-group:	Dzunza
		Buuu
	Segeju	Kalinde
	Western sub-group:	Malakote
		(Korokoro)
	Gusii	
	Kuria	Taita Group:
	Suba	Taita (Dabida, Sagalla, Kasigau)
		Taveta

Table 1.1 - (continued)

B) CHARI-NILE LANGUAGE FAMILY

Major Division present in Kenya: EASTERN SUDANIC

Sub-Division present in Kenya: NILOTIC

NILOTIC LINGUISTIC GROUPS

RIVER-LAKE	PLAINS	HIGHLANDS
Lwoo Division:	Itunga/Karimojong Division:	Kalenjin Division:
Luo Group:	Iteso	Northern sub-group:
Ugenya	Turkana	Pokot
Alego		
Gem	Maasai Division:	Elgon sub-group:
Yimbo		
Sakwa	Agricultural Group:	Kony
Asembo		Pok
Seme	Uasin Gishu (extinct)	Bongomek
Uyoma		Sebei
Kisumu	Pastoral Group:	
Kajulu		Nandi sub-group:
Miwani	Samburu	
Kano	Loita	Nandi
Nyakach	Damat	Kipsigis
Karachuoŋjo	Purko	Nyangori
Kabondo	Isiria	Tugen
Kasipul	Moitanik	Keyo
Nyokal	Kaputie	Marakwet
Kanyado	Kelani	Endo
Kasigunga	Kankere (Dalalekutuk)	
Konyango	Matapato	Hunting sub-group:
Kamagambo	Keekonyokie	
Sakwa		Ogiek Bands
Kanyamkago	Hunting and Fishing Groups:	
Kaksingiri	El Molo	
Gwassii	Njemps	
Mohoru	Ndigiri	
Suna	Ngwesi	
	Luasi	
	Momonyot	
	Suiei	

Table 1.1 - (continued)

C) AFROASIATIC LANGUAGE FAMILY

Major Division present in Kenya: CUSHITIC
 Sub-Divisions present in Kenya: SOUTHERN CUSHITIC
 EASTERN CUSHITIC

SOUTHERN CUSHITIC GROUP

Dahalo (Hunters)*

Eastern Cushitic Groups:

SOMALI	GALLA	BURJI +
Somali Group: =	Sagwiya Boran	Burji
	Gabbra Boran	Konzo
Abdwak	Orma	
Aulihan	Sakuye +	
Muhammed Zubier	Korokoro	
Degodia		
Murille +	Hunting Group:	
Gurreh		
Abdullah	Sanye/Liangulo Bands: * =	
Adjuran	Mukogodo	
Gosha		

Rendille sub-divison:

Rendille

Hunters:

Boni Bands * =

* Linguistic classification problematic

+ Exact status unsure

= Exact composition of sub-groups not known precisely.

TABLE 1.2—POPULATION DISTRIBUTION AND GROWTH BY TRIBE AND NATIONALITY

Tribe and Nationality	TOTAL				MALE				FEMALE				PER CENT CHANGE					
	1962		1969		1962		1969		1962		1969		Total		Male		Female	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Kikuyu	1,642,065	19.0	2,201,632	20.1	810,856	19.0	1,091,413	19.9	831,209	19.1	1,110,219	20.3	34.1	34.6	33.6	33.6	33.6	33.6
Embu	95,647	1.1	117,969	1.1	47,048	1.1	58,223	1.1	48,599	1.1	59,746	1.1	23.3	23.8	22.9	22.9	22.9	
Meru	439,921	5.1	554,236	5.1	214,991	5.0	276,325	5.0	224,930	5.2	277,931	5.1	26.0	28.5	23.6	23.6	23.6	
Mbere	38,172	0.4	49,247	0.5	17,692	0.4	23,166	0.4	20,480	0.5	26,081	0.5	29.0	30.9	27.3	27.3	27.3	
Kamba	933,219	10.8	1,197,712	10.9	455,215	10.6	592,889	10.8	478,004	11.0	604,823	11.1	28.3	30.2	26.5	26.5	26.5	
Tharaka	38,474	0.4	51,883	0.5	18,244	0.4	25,159	0.5	20,230	0.5	26,724	0.5	34.9	37.9	32.1	32.1	32.1	
Luhya	1,086,409	12.6	1,453,302	13.3	533,180	12.5	723,071	13.2	553,229	12.7	730,231	13.4	33.8	35.6	32.0	32.0	32.0	
Kisii	538,343	6.2	701,679	6.4	266,978	6.2	356,730	6.5	271,365	6.2	344,949	6.4	30.3	33.6	27.1	27.1	27.1	
Kuria	41,885	0.5	59,875	0.5	20,992	0.5	30,570	0.6	20,893	0.5	29,305	0.5	43.0	45.6	40.3	40.3	40.3	
Mijikenda	414,887	4.8	520,520	4.8	199,587	4.7	255,508	4.7	215,300	4.9	265,012	4.9	25.5	28.0	23.1	23.1	23.1	
Pokomo/Riverine	30,350	0.4	35,181	0.3	15,094	0.4	17,110	0.3	15,256	0.3	18,071	0.3	15.9	13.4	18.5	18.5	18.5	
Taveta	4,855	0.1	6,324	0.1	2,373	0.1	2,942	0.1	2,482	0.1	3,382	0.1	30.3	24.0	36.3	36.3	36.3	
Taita	83,613	1.0	108,684	1.0	39,895	0.9	52,501	1.0	43,718	1.0	55,993	1.0	29.8	31.6	28.1	28.1	28.1	
Swahili/Shirazi	8,657	0.1	9,971	0.1	4,473	0.1	5,048	0.1	4,184	0.1	4,923	0.1	15.2	12.9	17.7	17.7	17.7	
Bajun	11,280	0.1	24,387	0.2	5,471	0.1	11,808	0.2	5,809	0.1	12,579	0.2	116.2	115.8	116.5	116.5	116.5	
Boni/Sanye	4,797	0.1	3,972	..	2,513	0.1	2,062	..	2,284	0.1	1,910	..	-17.2	-17.9	-16.4	-16.4	-16.4	
Luo	1,148,335	13.3	1,521,595	13.9	561,721	13.1	763,080	13.9	586,614	13.5	758,515	13.9	32.5	35.8	29.3	29.3	29.3	
Nandi	170,085	2.0	261,969	2.4	83,535	2.0	131,001	2.4	86,550	2.0	130,968	2.4	54.0	56.8	51.3	51.3	51.3	
Kipsigis	341,771	4.0	471,459	4.3	172,527	4.0	237,578	4.3	173,556	3.9	233,881	4.3	37.9	39.4	36.5	36.5	36.5	
Elgeyo	100,871	1.2	110,908	1.0	51,310	1.2	57,002	1.0	49,561	1.1	53,906	1.0	10.0	11.1	8.8	8.8	8.8	
Marakwet	66,695	0.8	79,713	0.7	34,119	0.8	41,187	0.8	32,846	0.8	38,526	0.7	19.0	20.7	17.3	17.3	17.3	
Pokot	76,537	0.9	93,437	0.9	37,954	0.9	45,606	0.8	38,583	0.9	47,831	0.9	22.1	20.2	24.0	24.0	24.0	
Sabaot	28,012	0.3	42,468	0.4	13,684	0.3	21,196	0.4	14,328	0.3	21,272	0.4	51.6	54.9	48.5	48.5	48.5	

TABLE 1.2—POPULATION DISTRIBUTION AND GROWTH BY TRIBE AND NATIONALITY—(Contd.)

Tribe and Nationality	TOTAL			MALE			FEMALE			PER CENT CHANGE					
	1962		1969		1962		1969		1962		1969		Total	Male	Female
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent			
Tugen ..	109,691	1.3	130,249	1.2	54,934	1.3	66,461	1.2	54,757	1.3	18.7	21.0	16.5		
Masai ..	154,079	1.8	154,906	1.4	75,002	1.8	77,745	1.4	79,077	1.8	0.5	3.7	-2.4		
Samburu ..	48,750	0.6	54,796	0.5	25,005	0.6	27,989	0.5	23,745	0.5	12.4	11.9	12.9		
Turkana ..	181,387	2.1	203,177	1.9	89,973	2.1	107,249	2.0	91,414	2.1	12.0	19.2	10.5		
Teso ..	72,357	0.8	85,800	0.8	35,810	0.8	42,703	0.8	36,547	0.8	18.6	19.2	17.9		
Nderobo ..	14,378	0.2	21,034	0.2	7,123	0.2	10,741	0.2	7,255	0.2	46.3	50.8	41.9		
Njemps ..	4,681	0.1	6,526	0.1	2,231	0.1	3,155	0.1	2,450	0.1	39.4	41.4	37.6		
Rendille ..	13,724	0.2	18,729	0.2	7,007	0.2	9,884	0.2	6,717	0.2	36.5	41.1	31.7		
Boran ..	58,346	0.7	34,086	0.3	30,863	0.7	17,472	0.3	27,483	0.6	-41.6	-43.4	-39.5		
Gabbra ..	11,478	0.1	16,108	0.1	5,876	0.1	8,772	0.2	5,602	0.1	40.3	49.3	31.0		
Sakuye ..	1,681	..	4,369	..	860	..	2,115	..	821	..	159.9	145.9	174.5		
Orma ..	11,646	0.1	16,306	0.1	6,139	0.1	8,350	0.2	5,507	0.1	40.0	36.0	44.5		
Gosha ..	2,926	0.1	2,928	..	3,397	0.1	1,560	..	3,860	0.1	-59.7	-54.1	-64.6		
Ogaden ..	90,118	1.4	90,118	0.8	66,507	1.6	48,729	0.9	55,138	1.3	-25.9	-26.7	-24.9		
Ajuran ..	15,544	0.2	15,544	0.1	10,404	0.2	8,174	0.1	9,515	0.2	-22.0	-21.4	-22.5		
Guruch ..	49,241	0.4	49,253	0.5	18,454	0.4	26,452	0.5	16,149	0.4	42.3	43.3	41.2		
Other Somali ..	91,817	1.1	91,094	0.9	51,454	1.2	49,861	0.9	40,363	0.9	3.7	1.0	7.1		
Non-Kenyan African ..	47,872	0.6	56,123	0.5	28,031	0.7	33,200	0.6	19,861	0.5	17.2	18.5	15.4		
European ..	55,759	0.6	40,593	0.4	15,105	0.7	21,129	0.4	25,812	0.6	-27.2	-29.4	-24.6		
Asian ..	176,613	2.0	139,037	1.3	45,716	2.2	71,599	1.3	84,228	1.9	-21.3	-22.5	-19.9		
Arab ..	34,048	0.4	27,886	0.3	559	0.4	14,773	0.3	15,964	0.4	-18.1	-18.3	-17.9		
Others ..	3,901	..	1,987	..	864	..	975	..	1,988	..	-49.1	-49.0	-49.1		
Not Stated ..	11,169	0.1	..	..	11,169	0.1	..	..	5,037	0.1	..	..	..		

TABLE 1.3 — PER CENT DISTRIBUTION OF POPULATION BY WHETHER OR NOT BORN IN SAME DISTRICT OF RESIDENCE BY TRIBE AND NATIONALITY

Tribe and Nationality	Total	Birthplace Same as District of Residence	BIRTHPLACE NOT SAME AS DISTRICT OF RESIDENCE			
			Elsewhere in Province	Elsewhere in Kenya	Outside Kenya	Not Stated
Total	100.0	82.6	4.1	11.3	1.4	0.7
Kikuyu	100.0	72.5	6.4	20.4	0.1	0.6
Embu	100.0	93.6	1.4	4.5	—	0.5
Meru	100.0	95.6	1.1	2.6	—	0.6
Mbere	100.0	92.7	2.1	1.6	—	3.6
Kamba	100.0	87.6	2.0	9.9	0.1	0.5
Tharaka	100.0	59.3	24.6	14.6	—	1.6
Luhya	100.0	82.1	1.3	15.4	0.7	0.4
Kisii	100.0	87.6	0.5	11.7	—	0.2
Kuria	100.0	84.7	0.8	12.8	1.3	0.4
Mijikenda	100.0	83.4	7.6	8.1	0.2	0.7
Pokomo/Riverine	100.0	43.8	21.6	7.7	—	26.9
Taveta	100.0	71.2	2.5	5.6	19.8	1.0
Taita	100.0	67.3	20.8	7.5	0.5	3.8
Swahili/Shirazi	100.0	84.0	5.1	8.2	1.7	1.0
Bajun	100.0	78.8	17.9	2.5	0.3	0.4
Boni/Sanye	100.0	82.7	13.6	3.0	—	0.7
Luo	100.0	83.6	3.8	11.6	0.4	0.5
Nandi	100.0	87.0	8.0	4.6	0.3	0.1
Kipsigis	100.0	91.7	5.4	2.6	—	0.2
Elgeyo	100.0	76.7	15.5	7.3	0.1	0.4
Marakwet	100.0	94.1	3.9	1.8	—	0.2
Pokot	100.0	97.0	2.1	0.6	0.1	0.2
Sabaot	100.0	37.3	2.7	7.8	2.1	0.2
Tugen	100.0	91.2	6.9	1.8	—	0.1
Masai	100.0	91.0	5.0	3.5	0.5	—
Samburu	100.0	87.7	3.2	4.5	0.1	4.6
Turkana	100.0	58.1	17.6	6.2	0.1	18.0
Teso	100.0	94.2	1.5	3.2	1.0	0.2
Nderobo	100.0	77.0	6.6	15.4	—	1.0
Njemps	100.0	92.6	2.3	4.1	0.4	0.5
Rendille	100.0	52.3	1.3	43.2	—	3.1
Boran	100.0	79.7	3.9	12.2	2.9	1.2
Gabra	100.0	86.5	2.6	6.3	2.4	2.3
Sakuye	100.0	38.3	3.9	7.3	0.1	0.3
Orma	100.0	38.0	2.6	0.9	0.3	3.2
Gosha	100.0	39.5	1.7	5.0	3.3	0.5
Hawiya	100.0	34.6	2.3	11.2	0.9	1.0
Ogaden	100.0	96.4	0.6	2.4	0.4	0.2
Ajuran	100.0	92.7	1.2	5.5	0.4	0.1
Gurren	100.0	91.4	3.5	3.1	1.1	0.8
Degodia	100.0	93.0	1.8	4.7	0.3	0.1
Other Somali	100.0	38.6	1.5	7.3	1.8	0.9
"Non-Kenya Africa"	100.0	23.5	1.8	3.0	60.6	1.1
European "Kenyan"	100.0	21.8	2.8	21.8	52.7	0.9
"Non-Kenyan"	100.0	14.7	0.8	10.3	73.1	1.2
Asians—"Kenyan"	100.0	68.8	2.5	16.6	16.3	0.8
"Non-Kenyan"	100.0	38.6	1.3	12.4	46.4	1.2
Arabs—"Kenyan"	100.0	76.0	10.2	5.6	7.1	1.1
"Non-Kenyan"	100.0	51.9	3.0	3.8	33.3	3.0

Table 1.4 Number and Percentage of People from each ethnic population living inside their traditional home provinces and districts.

Population	Total No.	Number in Traditional Home Province(s)	%	Number in Traditional Home District(s)	%	Movement Within Province %
Kikuyu	2,201,632	1,798,537	81.7	1,631,068	74.1	7.6
Embu	117,969	110,184	93.4	109,174	92.6	0.8
Meru	554,256	540,377	97.5	536,689	96.8	0.7
Mbere	49,247	48,223	97.9	46,703	94.8	3.1
Kamba	1,197,712	1,038,810	86.7	1,036,473	86.5	0.2
Tharaka	51,883	51,142	98.6	51,119	98.5	0.1
Luyia	1,453,302	1,191,143	82.0	1,191,143	82.0	-
Kisii	701,679	665,298	94.8	661,465	94.3	0.5
Kuria	59,875	56,790	94.9	56,053	93.6	1.3
Mji Kenda	520,520	516,761	99.3	512,142	98.4	0.9
Pokomo	35,181	32,628	92.7	29,124	82.8	9.9
Taveta	6,324	5,666	89.6	5,285	83.6	3.0
Taita	108,494	103,387	95.3	86,964	80.1	15.2
Swahili	9,971	7,884	79.1	7,318	73.4	5.7
Bajun	24,387	23,600	96.8	14,709	60.3	36.5
Boni/Sanye	3,972	3,803	95.8	3,735	94.0	1.8
Luo	1,521,595	1,326,784	87.2	1,321,523	87.2	-
Nandi	261,969	254,755	97.2	163,959	62.6	34.6
Kipsigis	471,459	460,694	97.7	389,728	82.7	15.0
Keyo	110,908	109,064	98.3	75,455	68.0	30.3
Marakwet	79,713	79,078	99.2	74,643	93.6	5.6
Pokot	93,437	92,950	99.5	89,876	96.2	3.3
Sabaot	42,468	42,086	99.1	40,507	95.4	3.7
Tugen	130,249	129,256	99.2	119,156	91.5	7.7
Maasai	154,906	150,372	97.1	142,204	91.8	5.3
Samburu	54,796	53,118	96.9	51,503	94.0	2.9
Turkana	203,177	196,073	96.5	176,547	86.9	9.6
Iteso	85,800	76,413	89.1	75,277	87.7	1.4
Nderobo	21,034	20,856	99.2	19,952	94.9	4.3
Njemps	6,521	6,170	94.6	5,933	90.9	3.7
Rendille	18,729	17,993	96.1	17,931	95.7	0.4
Boran	34,086	29,757	87.3	29,315	86.0	1.3
Gabbra	16,108	15,968	99.1	15,890	98.6	0.5
Sakuye	4,369	4,185	95.8	4,173	95.5	0.3
Orma	16,306	15,985	98.0	15,610	95.7	2.3
Somali	249,731	239,900	96.1	239,900	96.1	-

Table 1.5 Distribution of those sections of ethnic populations who do not inhabit traditional home provinces. (Qualification >10 per cent outside home province).

Population	Number's Outside Home Province	P R O V I N C E				O R	C I T Y				Nyanza ex Kisumu	Kisumu	Rift Valley	Western	
		Coastal					North Eastern	Nyanza ex Kisumu	Kisumu	Rift Valley					Western
		Central	Nairobi	(ex Mombasa)	Mombasa										
Kikuyu	403,095	-	-	1.1	3.7	6.1	0.2	0.7	0.8	84.7	2.7				
Kamba	158,902	15.1	38.2	18.0	18.5	-	0.3	0.3	0.5	8.7	0.5				
Luyia	262,159	3.3	24.8	1.7	5.8	0.9	0.1	9.6	5.9	47.8	-				
Taveta	658	36.9	16.1	-	-	4.4	2.3	2.4	0.5	34.5	2.9				
Swahili	2,087	9.0	18.5	-	-	25.5	0.5	6.8	14.0	24.0	1.6				
Luo	194,811	4.1	32.3	4.7	11.3	1.6	0.1	-	-	35.5	10.3				
Iteso	9,387	1.2	5.0	0.8	1.5	1.0	0.3	1.3	5.3	83.6	-				
Boran	4,329	10.7	24.5	10.1	4.6	-	7.7	1.0	0.8	39.4	1.1				

Table 1.6 Distribution within home province of those sections of ethnic populations who do not inhabit traditional home districts. (Qualification >7 per cent movement within province).

Population	No. Outside home district within R.V. Province	D I S T R I C T (R I F T V A L L E Y P R O V I N C E)												
		Elgeyo			Trans			Uasin			West			
		Baringo	Marakwet	Kajiado	Kericho	Laikipia	Nakuru	Nandi	Narok	Samburu	Nzoia	Turkana	Gishu	Pokot
Nandi	90,796	0.2	0.5	0.2	1.8	4.7	6.3	-	1.4	0.1	15.0	0.1	68.9	1.0
Keyo	33,609	0.7	-	0.1	0.3	2.2	2.9	0.5	0.2	0.1	1.0	0.1	91.6	0.4
Kipsigis	70,966	0.7	0.3	0.2	-	2.8	36.8	10.2	43.4	0.1	1.1	0.1	4.2	0.2
Tugen	10,100	-	18.5	0.3	1.2	2.6	39.4	1.5	0.7	0.2	2.5	1.5	25.8	6.0
Turkana	19,526	4.3	2.1	0.1	0.7	21.9	15.1	2.6	0.2	-	31.6	-	14.4	7.1

Population	No. Outside Home district within Coast Province	D I S T R I C T (C O A S T P R O V I N C E)				
		Kilifi	Kwale	Lamu	Mombasa	Taita Tana
Bajun	8,891	33.1	2.3	-	59.9	0.3 4.4
Pokomo	3,504	14.9	4.9	18.1	60.2	2.0 -
Taita	16,423	4.1	6.0	0.4	88.6	- 0.8

Kikuyu: Number outside home districts within Central Province (excluding NAIROBI) = 358,836

Distribution = 46.7% in Nyandarua District: 53.3% in Nairobi.

Table 2.1 List of minimal populations surveyed and numbers sampled

(TOTAL SAMPLE = 6,235 - 3,551 males & 2,684 females).

	Males	Females	Total		Males	Females	Total
<u>Cushitic Speakers:</u>				<u>Central Bantu:</u>			
Somali	224	103	327	Kiambu Kikuyu	65	39	104
Rendille	153	46	199	Muranga Kikuyu	56	46	102
Gabbra	27	63	90	Nyeri Kikuyu	49	51	100
Boran	128	60	188	Ndia	56	66	122
Burji	64	57	121	Kamba	78	42	120
<u>Misc:</u>				Embu	87	72	159
Orma	4	1	5	Mbere	64	66	130
Konzo	8	2	10	<u>Meru sub-group:</u>			
<u>Nilotic Speakers:</u>				Chuka	75	61	136
Samburu	87	46	133	Muthambi	76	83	159
Keekonyokie Maasai	63	150	213	Mwimbi	62	43	105
Purko Maasai	37	9	46	Igoji	78	95	173
Kony	37	23	60	Imenti	61	39	100
Nandi	52	50	102	Tigania	64	36	100
Kipsigis	57	43	100	Igembe	66	33	99
Tugen	108	102	210	Tharaka	54	46	100
Keyo	50	50	100	<u>Misc:</u>			
Marakwet	50	56	106	Urban Kikuyu	14	10	24
Pokot	45	54	99	<u>Coastal Bantu:</u>			
Iteso	52	47	99	Pokomo	114	90	204
Turkana	66	43	109	Malakote/ Korokoro	41(7)	-	41
Luo	170	107	277	Girama	64	38	102
<u>Bantu Speakers:</u>				Chonyi	79	14	93
Western Highland Bantu				Mid Mji Kenda	32	27	59
Gusii	50	51	101	Digo	116	100	216
<u>Luyia Group:</u>				Taita	55	45	100
Tiriki	26	25	51	Taveta	59	48	107
Maragoli	26	24	50	<u>Hunters:</u>			
Bunyore	30	20	50	Mukogodo	41	9	50
Idakho	39	15	54	Ngwesi	38	6	44
Marama	25	25	50				
Wanga	25	24	49				
Marach	25	24	49				
Bukhayo	23	26	49				
Samia	24	26	50				
Butsotso	20	27	47				
Bunyala (north)	25	25	50				
Kabras	26	26	52				
Bukusu	61	29	90				
TOTAL:				3,551 males			
				2,684 females			
				6,235			

Table 2.2 Sampling itinerary during fieldwork 1973 and 1975

Population	Samples	Localities	District
<u>June 3rd to June 28th</u>			
Kamba	Farm: 2P.S.	Embakasi; Mukua; Kibwezi	Machakos
Taita	3S.S.	Mwatate; Wundanyi; Wusi	Taita
Taveta	3P.S.	Near Taveta Town	Taita
Kiambu Kikuyu	2P.S.	Kahuho; Urithu	Kiambu
Muranga Kikuyu	1P.S.	Muranga Town	Muranga
<u>July 1973: Major delays (no Kleenprint paper, car undergoing major repairs).</u>			
<u>August 1st to August 10th 1973</u>			
Nyeri Kikuyu	1P.S.	Thego	Nyeri
Imenti	1S.S.	Near Meru Town	Meru
Igembe	1P.S.	Gate	Meru
Tigania	1P.S.	Muthara	Meru
Tharaka	1P.S.	Chiokarige	Meru
<u>August 11th to September 5th 1973: (School holidays).</u>			
Bukusu	Mission	Kiminini	Trans Nzoia
Turkana	2 Farms	Kwanza; Endebess	Trans Nzoia
Pokot	1 Farm	Kwanza; Ortum	Trans Nzoia
	Mission H.		Pokot
<u>September 6th to 14th September 1973</u>			
Purko Maasai	1S.S.	Narok Town	Narok
Luo	1P.S.	Homa Bay	South Nyanza
Gusii	2P.S.	Kisii Town	Kisii
Kipsigis	2P.S.	Kericho; Lumbwa	Kericho
<u>September 15th to September 19th 1973: Car breakdown & hunt for spare parts.</u>			
<u>September 20th to October 18th 1973</u>			
Tiriki	1P.S.	Tiriki	Kakamega
Maragoli	1P.S.	Vihiga	Kakamega
Bunyore	1P.S.	Kima	Kakamega
Idakho	1P.S.	Iregi	Kakamega
Butsotso	1P.S.	Butsotso	Kakamega
Wanga	1P.S.	Mumias	Kakamega
Marama	1P.S.	Butere	Kakamega
Nyala	1P.S.	Navakholo	Kakamega
Kabras	1P.S.	Malava	Kakamega
Kony	2P.S.	Kapkateny; Kapsakweny	Bungoma
Iteso	2P.S.	Malakisi; Igara	Bungoma; Busia
Bukhayo	1P.S.	Lwanya	Busia
Samia	1P.S.	Nangina	Busia

Table 2.2 (continued)

Population	Samples	Locality	District
Marach	1P.S.	Butula	Busia
Nandi	2P.S.	Kapsabet; Chemomi	Nandi
Keyo	1P.S.	Singore	Elgeyo Marakwet
Marakwet	1P.S.	Chebara	Elgeyo Marakwet
<u>October 22nd to October 31st</u>			
Luo	3P.S.	Eastleigh Racecourse, Punwani.	Nairobi
<u>November 2nd 1973</u>			
Keekonyokie Maasai	2P.S.	Kadjiado Town	Kadjiado
<u>November 19th 1973</u>			
Somali	3P.S.	Garissa Town	Garissa
Malakote	1S.S.		
Korokoro			
<u>June 30th to July 10th 1975</u>			
Embu	1P.S.	Nembure	Embu
Rendille	4P.S.	Marsabit;	
Gabbra		Laisamis	Marsabit
Boran			
Burji			
Konzo			
Samburu			
(Marsabit 3P.S.; Laisamis 1P.S.: All samples from Marsabit only except the Rendille from both locations, and the Samburu from Laisamis only).			
<u>July 16th to August 5th 1975</u>			
Tugen	2P.S.; 1P.S.	Kabarnet; Kampi Ya Samaki.	Baringo
Mukogodo	1P.S.	Dol Dol	Nanyuki
Ngwesi	1P.S.	Ajiu	Laikipia
Ndia	2P.S.	Kagumo; Keruguya	Kirinyaga
Embu	1P.S.	Embu Town	Embu
Mbere	1P.S.; 1S.S.	Ishiara; Kanyuambora	Embu
Chuka	3P.S.	Kangondu; Kibumba; Mabukuro.	Meru
Muthambi	2P.S.	Kituntu, Muthambe	Meru
Mwimbi	1P.S.	Kituntu	Meru
Igoji	2P.S.	Igoji; Kinoro	Meru

Table 2.2 (continued)

Population	Samples	Locality	District
<u>August 10th to September 5th 1975: (School holidays)</u>			
<u>September 9th to October 9th 1975</u>			
Digo	3P.S.	Kwale, Ukunda; Waa	Kwale
Chonyi	2P.S.	Kilifi; Kikambala	Kilifi
Pokomo	2P.S.	Hola Town	Tana River
Giriama	1P.S.	Jilore	Kilifi

P.S. = Primary School

S.S. = Secondary School

Table 3.1: Elementary sub-types of concordant variation

a) Clustered:

	Pop	Attribute 1	Attribute 2	Attribute 3
clus1	1	1	50	21
	2	2	53	22
	3	3	56	23
clus2	4	14	80	31
	5	15	87	32
	6	16	89	33
clus3	7	20	99	41
	8	22	106	42
	9	23	108	43

b) Clinal:

1	1	50	20
2	2	51	21
3	3	52	22
4	4	53	23
5	5	54	24
6	6	55	25
7	7	56	26
8	8	57	27
9	9	58	28

c) Homogeneous:

1	1.6	5.8	15.3
2	1.2	5.8	15.8
3	1.7	5.6	15.7
4	1.4	5.2	15.5
5	1.3	5.4	15.9
6	1.7	5.9	15.1
7	1.4	5.4	15.7
8	1.8	5.3	16.0
9	1.5	5.2	15.4

TABLE 5.1 : ANALYSIS OF VARIANCE OF MINIMAL POPULATION SAMPLES
(MALES AND FEMALES) BY ALL MAJOR DERMATOGLYPHIC DIGITAL
AND PALMAR ATTRIBUTES : AND CHI SQUARE RESULTS FOR NOMINAL
FINGER PATTERN ATTRIBUTES.

NON SUMMARY ATTRIBUTES

VARI- TABLE	MALES		FEMALES		VARI- TABLE	MALES		FEMALES	
	F	P	F	P		F	P	F	P

RADIAL RIDGE COUNTS :									
RFR1	1.93	.000	1.57	.006	LFR1	2.90	.000	2.20	.000
RFR2	2.19	.000	1.27	.092	LFR2	2.55	.000	2.16	.000
RFR3	1.81	.000	1.25	.108	LFR3	2.46	.000	1.52	.011
RFR4	2.04	.000	1.66	.002	LFR4	2.09	.000	1.84	.000
RFR5	1.83	.000	1.90	.000	LFR5	2.07	.000	2.24	.000
ULNAR RIDGE COUNTS :									
RFU1	1.92	.000	2.18	.000	LFU1	2.14	.000	2.71	.000
RFU2	1.21	.140	1.74	.001	LFU2	1.10	.289	1.43	.025
RFU3	1.27	.090	1.53	.008	LFU3	1.16	.193	1.26	.103
RFU4	2.07	.000	1.70	.001	LFU4	1.71	.001	1.09	.303
RFU5	1.32	.058	1.25	.108	LFU5	1.46	.014	.80	.850
UNILATERAL RIDGE COUNTS :									
RF1	1.91	.000	1.55	.007	LF1	2.63	.000	2.13	.000
RF2	2.18	.000	1.73	.001	LF2	2.08	.000	1.54	.008
RF3	1.85	.000	1.32	.065	LF3	2.32	.000	1.43	.025
RF4	2.03	.000	1.70	.001	LF4	2.04	.000	1.74	.001
RF5	1.87	.000	1.90	.000	LF5	2.16	.000	2.25	.000
ABSOLUTE RIDGE COUNTS :									
RABS1	1.81	.000	1.81	.000	LABS1	2.21	.000	2.38	.000
RABS2	1.92	.000	1.86	.000	LABS2	1.94	.000	1.83	.000
RABS3	1.81	.000	1.65	.000	LABS3	1.94	.000	1.69	.002
RABS4	2.13	.000	1.81	.000	LABS4	1.94	.000	1.49	.000
RABS5	1.86	.000	1.86	.000	LABS5	2.16	.000	1.86	.000
FINGER PATTERN INTENSITY :									
RD1	1.36	.040	1.86	.000	LD1	1.83	.000	1.82	.000
RD2	1.18	.171	1.39	.036	LD2	1.16	.197	1.45	.020
RD3	1.51	.009	1.29	.080	LD3	1.31	.058	1.16	.203
RD4	1.52	.008	1.42	.028	LD4	1.50	.009	1.35	.048
RD5	1.05	.369	1.11	.271	LD5	1.51	.008	1.04	.392
FINGER PATTERNS(ARCHES, LOOPS AND WHORLS)- CHI SQUARE(DF = 112 MALES AND 104 FEMALES).									
	CHI	P	CHI	P		CHI	P	CHI	P
RP1	159.9	.002	168.5	.000	LP1	187.1	.000	160.9	.000
RP2	130.1	.116	139.5	.012	LP2	127.9	.144	129.0	.049
RP3	146.4	.016	112.8	.261	LP3	131.6	.110	114.1	.234
RP4	149.2	.011	119.7	.139	LP4	149.3	.011	103.6	.493
RP5	116.3	.372	111.3	.295	LP5	146.6	.016	114.8	.220

(Table 5.1 continued)

PALMAR RIDGE COUNTS : (A. O. V.)

	F	P	F	P		F	P	F	P
RAB	2.77	.000	2.55	.000	LAB	2.77	.000	2.24	.000
RBC	2.37	.000	1.86	.000	LBC	2.20	.000	1.81	.000
RCD	2.82	.000	2.09	.000	LCD	2.42	.000	1.56	.007

THENAR PATTERNS AND TRIRADII(A. O. V)

PTR	1.37	.036	1.36	.046	PTL	1.87	.000	1.49	.014
RTR	1.36	.037	1.49	.014	RTL	2.13	.000	1.70	.001
TEFR	1.42	.022	1.50	.012	TEFL	2.10	.000	1.67	.002

INTERDIGITAL PATTERNS(A. O. V)

P2R	1.30	.066	1.04	.399	P2L	1.30	.066	.75	.910
P3R	1.27	.085	.70	.947	P3L	1.44	.019	.99	.501
P3TR	1.14	.229	1.09	.313	P3TL	1.37	.036	1.22	.140
P4R	1.72	.001	1.16	.204	P4L	.89	.696	1.26	.100

HYPOTHENAR AND AXIAL PATTERNS AND TRIRADII(A. O. V) :

PHR	1.29	.072	1.17	.190	PHL	1.34	.048	1.31	.071
CHR	1.48	.012	1.13	.251	CHL	1.51	.009	1.30	.074
TBR	1.49	.011	1.11	.278	TBL	1.48	.012	1.27	.091
TR	2.49	.000	2.09	.000	TL	1.73	.001	2.17	.000
T1R	2.17	.000	1.83	.000	T1L	1.69	.001	1.77	.001
T2R	.84	.789	1.09	.304	T2L	1.26	.091	1.17	.193

S U M M A R Y A T T R I B U T E S :

DIGITAL :

	MALES		FEMALES			MALES		FEMALES	
	F	P	F	P		F	P	F	P
RTRADFR	2.29	.000	1.55	.008	LTRADFR	3.00	.000	2.12	.000
RTULNRC	1.96	.000	2.25	.000	LTULNRC	1.55	.006	1.53	.009
RTRC	2.31	.000	1.80	.000	LTRC	2.64	.000	1.89	.000
RTABSRC	2.34	.000	2.12	.000	LABSRC	2.34	.000	1.96	.000
RTFPI	1.62	.002	1.65	.002	LTFFPI	1.63	.002	1.51	.011

PALMAR :

RTPRC	3.62	.000	2.67	.000	LTPRC	3.09	.000	2.34	.000
TDR	1.95	.000	1.17	.190	TDL	1.52	.008	.86	.752
RTPLMI	1.96	.000	1.15	.223	LTPLMI	1.99	.000	1.48	.015
RTOTHI	1.62	.002	.90	.681	LTOTHI	1.48	.012	1.23	.131

A. O. V = ANALYSIS OF VARIANCE :

F = F-RATIO ; P = F-PROBABILITY :

Table 5.2: Percentage of significant attributes for various
attribute groupings - from information in Table 5.1.

Attributes	MALES			FEMALES		
	No	No Sig.	%Sig.	No	No Sig.	%Sig.
A: Digital non summary attributes:						
Radial Ridge Counts	10	10	100.0	10	8	80.0
Ulnar Ridge Counts	10	5	50.0	10	6	60.0
Unilateral Ridge Counts	10	10	100.0	10	9	90.0
Absolute Ridge Counts	10	10	100.0	10	10	100.0
Finger Pattern Intensity	10	6	60.0	10	6	60.0
Finger Patterns	10	6	60.0	10	4	40.0
Total Digital	60	47	78.3	60	43	71.7
B: Palmar non summary attributes:						
Palmar Ridge Counts	6	6	100.0	6	6	100.0
Thenar Patterns & Triradii	6	6	100.0	6	6	100.0
Interdigital Patterns	8	3	37.5	8	0	0.0
Hypothenar Patterns & Triradii & Axial Triradii	12	9	75.0	12	4	33.3
Total Palmar	32	24	75.0	32	16	50.0
Total Digital & Palmar	92	71	77.2	92	59	64.1
C: Summary attributes:						
Digital	10	10	100.0	10	10	100.0
Palmar	8	8	100.0	8	3	37.5
Total	18	18	100.0	18	13	72.2
ALL ATTRIBUTES	110	89	80.9	110	72	65.5

Table 5.3: Range of variation of minimal sample unit attribute means and frequencies.

	MALES						FEMALES					
	Right Hand			Left Hand			Right Hand			Left Hand		
	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range
FR1	11.0	17.9	7.0	9.6	16.0	6.4	10.1	15.8	5.7	8.3	14.5	6.2
FR2	6.7	11.5	4.8	5.9	10.5	4.6	7.1	11.0	3.9	5.4	9.9	4.5
FR3	8.0	12.4	4.4	7.5	12.6	5.1	7.9	12.0	4.0	6.7	11.2	4.4
FR4	10.7	16.2	5.5	10.1	15.0	5.0	9.9	15.5	5.6	9.5	14.3	4.8
FR5	8.9	13.4	4.5	8.8	13.1	4.3	8.7	13.4	4.6	7.8	12.8	4.9
FU1	2.4	9.5	7.2	2.2	9.4	7.2	2.1	9.6	7.4	1.2	9.9	8.6
FU2	2.9	7.8	4.9	2.1	6.8	4.8	1.3	7.6	6.3	2.1	8.1	6.0
FU3	0.1	4.0	4.0	0.7	4.4	3.8	0.0	3.9	3.9	0.0	4.8	4.8
FU4	2.2	7.3	5.1	1.7	7.0	5.3	1.2	5.9	4.7	0.3	6.1	5.8
FU5	0.2	2.4	2.2	0.4	3.0	2.7	0.0	1.6	1.6	0.1	2.7	2.6
D1	1.081	1.538	.457	1.051	1.531	.480	1.000	1.600	.600	1.000	1.560	.560
D2	1.081	1.600	.519	1.074	1.429	.354	1.038	1.500	.462	.956	1.500	.544
D3	.955	1.320	.366	.892	1.313	.421	.909	1.260	.351	.850	1.310	.460
D4	1.227	1.680	.453	1.167	1.579	.412	1.137	1.530	.393	1.000	1.508	.508
D5	1.017	1.250	.233	.966	1.266	.299	.972	1.206	.234	.961	1.269	.308
ARCH1	0.0	12.9	12.9	0.0	16.2	16.2	0.0	15.4	15.4	0.0	17.17	17.7
ARCH2	0.0	15.4	15.4	0.0	13.0	13.0	0.0	15.2	15.2	0.0	19.2	19.2
ARCH3	0.0	12.5	12.5	0.0	21.6	21.6	0.0	15.4	15.4	0.0	19.2	19.2
ARCH4	0.0	8.0	8.0	0.0	6.8	6.8	0.0	8.0	8.0	0.0	10.3	10.3
ARCH5	0.0	5.4	5.4	0.0	10.0	10.0	0.0	8.0	8.0	0.0	10.5	10.5
ULOOP1	26.9	70.3	43.3	25.0	80.0	55.0	26.0	73.1	47.1	22.0	73.9	51.9
ULOOP2	32.0	65.4	33.4	35.7	75.0	39.3	37.0	78.3	41.2	34.0	69.6	35.6
ULOOP3	60.0	96.0	36.0	50.0	88.0	28.0	61.5	95.8	34.3	56.0	87.0	31.0
ULOOP4	31.8	71.3	39.5	40.0	83.3	43.3	44.0	80.0	36.0	45.0	90.0	45.0
ULOOP5	73.4	96.4	22.9	68.4	93.3	24.9	86.3	100.0	23.7	68.4	96.1	27.7
CWHORL1	4.4	38.5	34.0	0.0	36.0	36.0	0.0	30.1	30.1	3.0	28.9	25.9
CWHORL2	10.0	34.2	24.2	0.0	40.0	40.0	3.7	27.0	33.3	0.0	40.0	40.0
CWHORL3	0.0	28.0	28.0	0.0	25.0	25.0	0.0	22.0	22.0	0.0	26.0	26.0
CWHORL4	8.3	56.0	47.7	8.3	48.0	39.7	0.0	38.6	38.6	0.0	39.1	39.1
CWHORL5	0.0	17.2	17.2	0.0	18.8	18.8	0.0	12.0	12.0	0.0	24.0	24.0
DLOOP1	8.1	34.7	26.6	8.0	50.0	42.0	7.4	38.5	31.1	4.4	43.0	38.7
DLOOP2	0.0	23.1	23.1	0.0	22.9	22.9	0.0	22.2	22.2	0.0	23.1	23.1
DLOOP3	0.0	10.0	10.0	0.0	12.7	12.7	0.0	23.1	23.1	0.0	15.6	15.6
DLOOP4	0.0	16.7	16.7	0.0	15.6	15.6	0.0	12.1	12.1	0.0	18.5	18.5
DLOOP5	0.0	12.5	12.5	0.0	12.0	12.0	0.0	5.0	5.0	0.0	15.4	15.4

(Table 5.3 continued)

	MALES						FEMALES					
	Right Hand			Left Hand			Right Hand			Left Hand		
	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range
AB	32.7	39.1	6.5	34.3	40.0	5.8	32.0	39.1	7.1	33.9	39.9	6.1
BC	23.7	29.4	5.7	24.4	29.7	5.3	23.7	29.5	5.8	23.7	31.1	7.4
CD	33.2	39.9	6.7	33.2	40.2	7.0	31.7	39.2	7.5	34.1	39.2	5.1
P2	.9	25.0	24.1	0.0	16.0	16.0	0.0	15.7	15.7	0.0	13.3	13.3
P3	29.2	64.4	35.2	8.7	42.3	33.6	23.8	53.9	30.0	4.2	34.8	30.6
P3T	0.0	16.4	16.4	1.6	24.0	22.4	0.0	15.4	15.4	0.0	23.1	23.1
P4	44.7	85.9	41.2	73.1	104.3	31.3	56.9	92.5	35.6	74.4	113.8	39.4
PH	0.0	20.0	20.0	0.0	17.4	17.4	0.0	20.0	20.0	0.0	19.6	19.6
CH	5.3	40.4	35.1	4.0	40.0	36.0	7.7	44.4	36.8	0.0	40.0	40.0
TEF	0.0	43.9	4.39	4.3	76.0	71.6	0.0	46.7	46.7	4.3	64.3	59.9
TD3	0.0	12.5	12.5	0.0	15.4	15.4	0.0	13.3	13.3	0.0	15.4	15.4
TD4	50.0	88.0	38.0	48.0	88.9	40.9	46.7	93.5	46.8	46.7	85.0	38.3
TD5	8.3	38.0	29.6	7.4	36.0	28.6	4.3	33.3	29.0	13.1	34.6	21.5
TD6	0.0	15.6	15.6	0.0	13.1	13.1	0.0	14.3	14.3	0.0	7.1	7.1
c) Summary attributes												
TRADRC	45.3	67.5	22.2	42.0	64.0	22.0	43.6	64.7	21.1	38.7	59.6	20.9
TULNRC	10.5	27.2	16.7	11.0	27.4	16.4	7.1	28.0	20.9	8.9	29.5	20.6
TRC	46.0	70.2	24.2	43.9	67.9	24.0	45.3	67.8	22.5	41.5	63.0	21.6
TABSRC	55.3	94.2	38.9	53.0	91.4	38.4	50.7	92.8	42.1	49.4	88.7	39.3
TFPI	5.545	7.320	1.775	5.405	7.047	1.642	5.308	7.000	1.692	5.000	6.970	1.970
TARCH	0.0	9.6	9.6	0.0	11.9	11.9	0.3	10.0	9.7	1.9	12.3	10.4
TULOOP	48.6	74.4	24.8	52.8	74.4	21.6	51.4	79.3	27.9	48.8	77.4	28.6
TCWHORL	8.8	29.6	20.8	6.7	26.4	19.7	2.3	25.2	22.9	5.1	26.4	21.3
TDLOOP	2.7	16.2	13.5	4.8	18.5	13.7	2.1	15.4	13.3	0.9	17.8	16.9
TPRC	89.4	106.1	16.7	90.0	107.2	17.3	86.1	103.9	17.9	90.5	105.1	14.7
TD	4.093	4.582	.489	4.077	4.531	.454	4.083	4.467	.384	4.074	4.400	.326
TPLMI	5.370	6.231	.861	5.528	6.480	.952	5.412	6.267	.855	5.480	6.200	.720
TOTHI	1.067	1.615	.548	1.080	1.500	.420	1.167	1.489	.322	1.040	1.467	.427

TABLE 5: 4 : PEARSON'S CORRELATION MATRIX FOR MALE AND FEMALE SUMMARY TAXONOMIC ATTRIBUTES :

[illegible]

(Table 5.4 continued).

	LTPL MIM	RTOT HIM	LTOT HIM	RARC HM	RULO OPM	RCWH ORLM	RDLO OPM	LARC HM	LULO OPM	LCWH ORLM	LDLO OPM	RTRA DRCF	LTRA DRCF	RTUL NRCF	RTUL NRCF
RTOTHIM	0.25														
LTOTHIM	0.35	0.46													
RARCHM	0.14	0.23	-0.09												
RULOOPM	-0.09	0.27	0.26	-0.14											
RCWHORLM	-0.15	-0.16	-0.24	-0.20	-0.77										
RDLOOPM	0.05	-0.42	-0.11	0.00	-0.51	0.05									
LARCHM	0.19	0.20	0.01	0.84	-0.01	-0.27	-0.05								
LULOOPM	-0.02	0.18	0.23	-0.21	0.64	-0.56	-0.31	-0.27							
LCWHORLM	-0.15	-0.10	-0.25	-0.23	-0.31	0.76	-0.06	-0.26	-0.59						
LDLOOPM	0.11	-0.26	-0.06	0.04	-0.34	0.11	0.59	0.06	-0.49	-0.16					
RTRADRCF	-0.01	0.07	0.16	0.01	-0.36	0.27	0.36	-0.09	-0.21	0.28	0.09				
LTRADRCF	-0.03	0.03	0.06	0.02	-0.37	0.30	0.32	-0.08	-0.23	0.32	0.07	0.89			
RTULNRCF	0.15	0.06	0.12	-0.03	-0.37	0.31	0.31	-0.11	-0.28	0.28	0.17	0.75	0.76		
RTULNRCF	0.07	0.16	0.18	-0.04	-0.27	0.19	0.35	-0.11	-0.21	0.22	0.17	0.66	0.66	0.81	
RTRCF	0.06	0.09	0.20	0.03	-0.38	0.27	0.34	-0.07	-0.22	0.27	0.11	0.99	0.88	0.79	0.67
LTRCF	0.02	0.08	0.11	0.05	-0.37	0.28	0.36	-0.05	-0.25	0.29	0.12	0.91	0.98	0.80	0.74
RTABSRCF	0.07	0.08	0.15	-0.01	-0.38	0.30	0.34	-0.10	-0.25	0.30	0.13	0.94	0.88	0.93	0.77
LTABSRCF	0.01	0.09	0.11	0.00	-0.35	0.28	0.36	-0.09	-0.25	0.31	0.13	0.87	0.94	0.86	0.87
RTFPIF	-0.05	0.02	0.05	-0.07	-0.18	0.17	0.26	-0.15	-0.14	0.20	0.12	0.64	0.68	0.85	0.75
LTFFIF	-0.13	0.08	0.10	-0.10	-0.09	0.09	0.19	-0.16	-0.10	0.20	0.06	0.59	0.62	0.64	0.80
RTPRCF	0.01	-0.07	-0.13	0.02	-0.03	0.01	0.06	-0.06	0.03	0.02	-0.01	0.23	0.16	0.23	0.07
LTPRCF	0.09	-0.11	-0.06	0.03	-0.05	-0.04	0.13	-0.06	0.14	-0.10	-0.01	0.20	0.08	0.13	0.01
TDRF	0.32	0.25	0.23	0.01	0.13	-0.08	-0.15	0.09	0.14	-0.13	0.00	-0.02	-0.09	0.10	0.06
TDLF	0.24	0.26	0.27	0.00	0.05	-0.06	-0.06	0.04	0.07	-0.12	0.06	0.05	0.01	0.03	0.05
RTPLMIF	0.34	0.19	0.16	-0.06	0.22	-0.23	-0.14	0.06	0.26	-0.20	0.00	-0.05	0.01	0.02	-0.01
LTPLMIF	0.22	0.16	0.14	0.00	0.09	-0.16	0.03	0.16	0.03	-0.17	0.15	-0.08	-0.13	-0.03	-0.07
RTOTHIF	0.05	0.23	0.04	0.01	0.02	0.08	-0.16	0.03	0.09	0.06	-0.05	-0.06	0.13	0.12	0.24
LTOTHIF	-0.05	0.09	0.08	-0.17	-0.06	0.23	-0.07	-0.14	-0.05	0.21	0.05	0.01	-0.07	0.16	0.14
RARCHF	0.20	-0.14	-0.08	0.04	-0.13	0.05	0.12	0.09	-0.19	-0.01	0.18	-0.33	-0.27	-0.21	-0.18
RULOOPF	-0.15	0.09	-0.05	0.05	0.32	-0.24	-0.38	0.09	0.31	-0.19	-0.28	-0.47	-0.56	-0.82	-0.71
RCWHORLF	-0.02	0.03	0.00	-0.05	-0.19	0.19	0.15	-0.15	-0.08	0.26	-0.06	0.54	0.62	0.82	0.69
RDLOOPF	0.06	-0.14	0.03	-0.08	-0.21	0.08	0.47	-0.09	-0.26	-0.01	0.51	0.34	0.31	0.40	0.42
LARCHF	0.10	-0.16	-0.14	-0.03	-0.11	0.06	0.15	0.00	-0.09	0.01	0.09	-0.38	-0.34	-0.19	-0.15
LULOOPF	0.08	0.01	-0.01	0.15	0.19	-0.14	-0.39	0.22	0.18	-0.20	-0.17	-0.45	-0.49	-0.63	-0.87
LCWHORLF	-0.14	0.22	0.18	-0.09	-0.07	0.18	0.05	-0.08	-0.10	0.29	-0.12	0.54	0.56	0.64	0.78
LDLOOPLF	0.02	-0.26	-0.07	-0.18	-0.25	0.05	0.55	-0.30	-0.17	0.02	0.51	0.35	0.38	0.47	0.53

	RTRC F	LTRC F	RTAB SRCF	LTAB SRCF	RTFP IF	LTFP IF	RTPR CF	LTPR CF	TDRF	TDLF	RTPL MIF	LTPL MIF	RTOT HIF	LTOT HIF	RARC HF
LTRCF	0.91														
RTABSRCF	0.96	0.92													
LTABSRCF	0.86	0.97	0.92												
RTFPIF	0.65	0.70	0.79	0.78											
LTFFIF	0.57	0.65	0.65	0.76	0.82										
RTPRCF	0.24	0.16	0.25	0.14	0.00	-0.01									
LTPRCF	0.22	0.08	0.19	0.05	-0.09	-0.11	0.90								
TDRF	0.03	-0.03	0.04	-0.03	-0.06	-0.20	0.02	0.02							
TDLF	0.08	0.03	0.04	0.03	-0.06	-0.07	-0.08	-0.03	0.62						
RTPLMIF	-0.02	0.00	-0.02	0.00	-0.04	-0.07	-0.14	-0.12	0.61	0.54					
LTPLMIF	-0.06	-0.13	-0.07	-0.11	-0.07	-0.16	-0.02	0.02	0.59	0.62	0.70				
RTOTHIF	-0.05	0.12	0.02	0.20	0.22	0.26	-0.28	-0.23	0.12	0.20	0.50	0.26			
LTOTHIF	0.02	-0.06	0.08	0.03	0.22	0.13	-0.20	-0.16	0.26	0.18	0.22	0.32	0.54		
RARCHF	-0.32	-0.24	-0.30	-0.26	-0.56	-0.55	0.14	0.15	0.20	0.04	0.04	0.02	-0.21	-0.21	
RULOOPF	-0.50	-0.63	-0.67	-0.69	-0.69	-0.45	-0.10	-0.03	-0.15	-0.02	-0.01	0.03	-0.08	-0.07	-0.21
RCWHORLF	0.55	0.63	0.71	0.71	0.88	0.70	0.00	-0.07	-0.10	-0.12	-0.03	-0.15	0.36	0.29	-0.40
RDLOOPF	0.33	0.36	0.39	0.39	0.34	0.28	0.26	0.20	0.17	0.11	-0.02	0.12	-0.30	-0.24	0.14
LARCHF	-0.38	-0.32	-0.31	-0.29	-0.43	-0.59	0.09	0.11	0.12	-0.07	-0.08	-0.04	-0.20	-0.08	0.80
LULOOPF	-0.42	-0.56	-0.56	-0.71	-0.61	-0.69	-0.13	-0.04	0.05	0.07	0.12	0.18	-0.11	-0.03	-0.06
LCWHORLF	0.52	0.59	0.62	0.72	0.75	0.86	-0.08	-0.21	-0.04	-0.03	-0.07	-0.14	0.26	0.23	-0.43
LDLOOPLF	0.35	0.41	0.42	0.48	0.43	0.45	0.31	0.29	-0.15	-0.10	-0.07	-0.04	-0.03	-0.10	0.02

	RULO OPF	RCWH ORLF	RDLO OPF	LARC HF	LULO OPF	LCWH ORLF	LDLO OPLF
RCWHORLF	-0.68						
RDLOOPF	-0.52	0.02					
LARCHF	-0.17	-0.29	0.09				
LULOOPF	0.72	-0.54	-0.52	-0.14			
LCWHORLF	-0.49	0.69	0.15	-0.38	-0.68		
LDLOOPLF	-0.49	0.29	0.69	0.01	-0.59	0.12	

TABLE 5.5 : EIGENVALUES FOR PRINCIPAL COMPONENTS ANALYSIS:
BASED ON 26 MALE AND 26 FEMALE SUMMARY TRAITS.

COMPONENT	EIGENVALUE	PCT OF VAR	CUM PCT
1	15.63276	30.1	30.1
2	6.93327	13.3	43.4
3	4.69126	9.0	52.4
4	3.94892	7.6	60.0
5	3.59092	6.9	66.9
6	2.80317	5.4	72.3
7	1.98592	3.8	76.1
8	1.82284	3.5	79.6
9	1.53968	3.0	82.6
10	1.31523	2.5	85.1
11	1.10482	2.1	87.2
12	0.88707	1.7	89.0
13	0.87866	1.7	90.6
14	0.72673	1.4	92.0
15	0.54634	1.1	93.1
16	0.49972	1.0	94.1
17	0.43762	0.8	94.9
18	0.40175	0.8	95.7
19	0.35979	0.7	96.4
20	0.31801	0.6	97.0
21	0.26262	0.5	97.5
22	0.22835	0.4	97.9
23	0.18448	0.4	98.3
24	0.14158	0.3	98.5
25	0.13476	0.3	98.8
26	0.12072	0.2	99.0
27	0.09468	0.2	99.2
28	0.07162	0.1	99.4
29	0.05877	0.1	99.5
30	0.05024	0.1	99.6
31	0.04485	0.1	99.6
32	0.03427	0.1	99.7
33	0.02803	0.1	99.8
34	0.02665	0.1	99.8
35	0.02042	0.0	99.9
36	0.01858	0.0	99.9
37	0.01784	0.0	99.9
38	0.01250	0.0	100.0
39	0.00739	0.0	100.0
40	0.00670	0.0	100.0
41	0.00346	0.0	100.0
42	0.00274	0.0	100.0
43	0.00138	0.0	100.0
44	0.00108	0.0	100.0
45	0.00072	0.0	100.0
46	0.00052	0.0	100.0
47	0.00042	0.0	100.0
48	0.00018	0.0	100.0
49	0.00008	0.0	100.0
50	0.00006	0.0	100.0
51	-0.00001	0.0	100.0
52	-0.00012	0.0	100.0

TABLE 5.6 : PRINCIPAL COMPONENTS ANALYSIS (UNROTATED COMPONENTS)-
ANALYSIS BASED ON 26 MALE AND 26 FEMALE TRAITS.

TRAIT	COM1	COM2	COM3	COM4	COM5	COM6	COM7	COM8	COM9	COM10	COM11	COMMUNALITY
RTRADRCM	0.73	-0.43	0.06	-0.12	0.30	-0.28	-0.07	-0.07	-0.10	-0.03	0.05	0.94
LTRADRCM	0.73	-0.35	0.03	-0.15	0.45	-0.01	0.00	-0.11	-0.03	-0.02	0.16	0.93
RTULNRCM	0.74	-0.52	0.10	0.03	-0.13	0.20	0.08	-0.05	0.01	-0.05	0.05	0.91
LTULNRCM	0.73	-0.41	0.05	-0.03	-0.26	0.27	-0.06	0.01	0.04	0.25	-0.06	0.91
RTRCM	0.74	-0.47	0.10	-0.05	0.28	-0.26	-0.04	-0.09	-0.09	-0.07	0.03	0.95
LTRCM	0.75	-0.36	0.05	-0.12	0.41	-0.03	-0.01	-0.14	-0.01	0.00	0.17	0.93
RTABSRM	0.81	-0.51	0.10	-0.06	0.11	-0.06	0.01	-0.07	-0.07	-0.04	0.04	0.96
LTABSRM	0.82	-0.41	0.03	-0.13	0.21	0.14	-0.03	-0.06	0.00	0.11	0.09	0.95
RTFPIIM	0.73	-0.54	-0.03	-0.20	-0.04	-0.06	0.08	0.00	0.09	-0.10	0.05	0.89
LTFFPIIM	0.74	-0.47	-0.14	-0.19	-0.13	0.00	0.02	0.07	0.03	0.19	-0.14	0.90
RTPRCM	0.01	-0.02	0.20	0.37	0.61	0.23	0.03	0.21	0.17	0.07	0.10	0.87
LTPRCM	0.02	0.00	0.21	0.55	0.44	0.31	0.01	0.28	0.17	0.13	0.17	0.79
TDRM	0.12	-0.17	0.73	-0.08	-0.05	-0.07	-0.31	-0.10	0.36	-0.11	-0.16	0.86
TOLM	0.16	-0.33	0.61	-0.04	-0.10	0.06	-0.16	0.00	0.12	-0.41	-0.20	0.77
RTPLMIM	-0.06	0.05	0.75	-0.11	0.08	0.14	-0.44	-0.11	0.19	0.19	-0.07	0.89
LTPLMIM	-0.01	0.01	0.76	0.11	-0.02	0.12	-0.28	-0.11	0.14	-0.31	-0.07	0.81
RTOTHIM	-0.10	0.37	0.41	-0.20	0.37	0.25	-0.30	-0.10	-0.25	0.32	0.16	0.85
LTOTHIM	0.02	0.27	0.48	-0.15	0.32	-0.10	-0.33	-0.32	-0.26	0.18	0.19	0.78
RARCHM	-0.28	0.35	0.06	0.38	-0.29	0.63	-0.01	-0.09	-0.03	-0.02	0.15	0.87
RULDOPM	-0.63	0.40	-0.04	-0.11	0.27	-0.42	-0.09	0.06	-0.10	0.16	-0.10	0.88
RCWHORLM	0.62	-0.48	-0.10	-0.22	-0.01	0.38	0.08	0.14	-0.01	0.05	-0.09	0.86
RDLOPM	0.45	-0.09	0.02	0.36	-0.43	-0.22	0.11	-0.21	0.14	-0.15	0.33	0.78
LARCHM	-0.36	0.31	0.18	0.27	-0.35	0.58	-0.05	-0.13	-0.06	-0.02	0.07	0.82
LULDOPM	-0.45	0.30	0.03	-0.08	0.51	-0.52	0.04	0.04	0.00	-0.25	0.11	0.91
LCWHORLM	0.57	-0.34	-0.19	-0.27	0.07	0.40	-0.01	0.25	-0.06	0.14	-0.28	0.88
LDLOPM	0.28	-0.19	0.16	0.19	-0.61	-0.15	0.11	-0.28	0.19	0.24	0.26	0.82
RTRADRCF	0.76	0.40	-0.02	0.17	0.14	0.10	0.21	-0.23	-0.16	-0.07	-0.06	0.94
LTRADRCF	0.78	0.41	-0.07	0.11	0.08	0.12	0.17	-0.12	-0.17	-0.14	0.07	0.91
RTULNRCF	0.82	0.41	0.15	0.08	-0.06	0.01	-0.02	0.14	0.00	-0.12	-0.12	0.92
LTULNRCF	0.74	0.49	0.11	0.02	-0.13	-0.09	-0.19	0.18	-0.02	0.09	0.09	0.91
RTRCF	0.77	0.40	0.05	0.18	0.14	0.12	0.21	-0.22	-0.14	-0.10	-0.07	0.95
LTRCF	0.80	0.44	-0.01	0.14	0.03	0.11	0.12	-0.10	-0.19	-0.11	0.07	0.95
RTABSRCF	0.84	0.43	0.07	0.14	0.06	0.07	0.11	-0.06	-0.09	-0.11	-0.10	0.97
LTABSRCF	0.84	0.49	0.00	0.08	-0.02	0.05	0.03	0.01	-0.12	-0.04	0.07	0.97
RTFPIF	0.69	0.57	-0.09	-0.14	-0.11	-0.08	-0.07	0.03	0.20	-0.06	-0.15	0.93
LTFFPIF	0.61	0.61	-0.20	-0.16	-0.03	-0.10	-0.14	-0.02	0.22	0.17	-0.02	0.92
RTPRCF	0.18	-0.05	0.08	0.68	0.38	-0.10	0.21	0.23	0.18	0.16	-0.16	0.84
LTPRCF	0.09	-0.07	0.17	0.71	0.40	-0.11	0.22	0.19	0.27	0.06	-0.05	0.89
TDRF	-0.11	0.13	0.66	-0.12	-0.06	-0.07	0.36	0.23	-0.31	0.05	-0.21	0.82
TOLF	-0.05	0.12	0.63	-0.20	-0.02	-0.01	0.40	-0.03	-0.16	0.20	-0.07	0.68
RTPLMIF	-0.14	0.20	0.59	-0.35	-0.05	-0.16	0.43	0.06	-0.07	-0.12	0.09	0.78
LTPLMIF	-0.16	0.09	0.64	-0.20	-0.16	-0.06	0.50	0.02	0.10	0.16	-0.03	0.80
RTOTHIF	0.05	0.29	0.18	-0.54	-0.04	0.14	0.14	0.35	0.27	-0.04	0.47	0.86
LTOTHIF	0.12	0.06	0.14	-0.58	-0.05	0.06	0.22	0.33	0.24	0.11	0.17	0.64
RARCHF	-0.14	-0.50	0.27	0.36	-0.27	-0.07	-0.11	0.35	-0.43	-0.02	0.16	0.90
RULDOFF	-0.67	-0.26	-0.18	-0.15	0.35	0.14	0.15	-0.34	0.16	0.11	0.06	0.89
RCWHORLF	0.62	0.51	-0.11	-0.17	-0.01	0.03	-0.11	0.29	0.18	-0.27	-0.02	0.89
RDLOFF	0.45	0.03	0.22	0.37	-0.37	-0.39	-0.01	-0.18	-0.06	0.32	-0.20	0.85
LARCHF	-0.13	-0.52	0.18	0.26	-0.24	-0.16	-0.23	0.44	-0.36	-0.13	0.15	0.89
LULDOFF	-0.64	-0.31	0.03	-0.12	0.23	0.30	0.29	-0.35	0.09	-0.16	-0.08	0.91
LCWHORLF	0.56	0.58	-0.14	-0.25	0.05	0.05	-0.22	0.18	-0.01	0.16	-0.05	0.85
LDLOFF	0.55	0.05	0.01	0.31	-0.28	-0.49	-0.01	-0.06	0.24	0.16	0.10	0.82

TABLE 5.7 : PRINCIPAL COMPONENTS ANALYSIS(VARIMAX ROTATED SOLUTION)-
ANALYSIS BASED ON 26 MALEAND 26 FEMALE SUMMARY TRAITS.

TRAIT	COM1	COM2	COM3	COM4	COM5	COM6	COM7	COM8	COM9	COM10	COM11
RTRADRCM	0.22	0.73	0.04	0.09	0.53	-0.05	0.07	0.08	0.13	-0.09	0.14
LTRADRCM	0.23	0.78	0.16	-0.04	0.35	-0.08	0.01	-0.09	0.21	0.03	0.23
RTULNRCM	0.17	0.88	0.04	0.21	-0.06	0.00	0.13	0.11	-0.14	-0.03	0.08
LTULNRCM	0.22	0.83	-0.05	0.24	-0.16	-0.03	0.07	0.07	-0.04	0.00	-0.28
RTRCM	0.21	0.75	0.09	0.11	0.50	-0.04	0.12	0.09	0.09	-0.14	0.17
LTRCM	0.23	0.79	0.16	0.03	0.34	-0.09	0.04	-0.09	0.22	0.02	0.21
RTABSRCM	0.22	0.88	0.04	0.15	0.27	-0.02	0.11	0.10	0.01	-0.08	0.12
LTABSRCM	0.25	0.90	0.09	0.06	0.16	-0.09	0.02	-0.04	0.14	0.04	0.02
RTFPIM	0.14	0.84	-0.09	0.17	0.27	-0.04	0.08	0.04	-0.19	0.09	0.08
LTFPIM	0.19	0.83	-0.13	0.16	0.19	-0.05	-0.06	0.03	-0.16	-0.01	-0.27
RTPRCM	-0.01	0.02	0.89	-0.17	-0.07	-0.07	0.08	0.01	0.15	-0.01	0.09
LTPRCM	0.01	0.03	0.84	-0.09	-0.21	-0.06	0.05	0.09	0.14	0.09	0.01
TDRM	-0.05	0.14	0.04	0.16	0.10	0.17	0.86	-0.03	0.13	0.05	-0.11
TOLM	-0.04	0.28	-0.02	-0.03	0.00	0.19	0.77	0.17	-0.12	-0.05	0.10
RTPLMIM	-0.06	-0.02	0.08	0.02	0.10	0.18	0.70	-0.05	0.52	0.09	-0.25
LTPLMIM	0.04	-0.05	0.11	0.01	-0.15	0.18	0.83	0.10	0.17	-0.04	0.14
RTOTHIM	0.11	-0.13	0.05	-0.28	-0.15	0.16	0.10	-0.06	0.82	0.10	-0.07
LTOTHIM	0.13	-0.11	-0.04	-0.02	0.12	0.15	0.22	-0.04	0.80	-0.07	0.12
RARCHM	0.05	-0.30	0.12	0.01	-0.86	-0.06	0.01	0.01	0.04	-0.02	0.08
RULOOMPM	-0.18	-0.75	-0.02	-0.20	0.35	0.08	-0.15	-0.06	0.25	-0.04	-0.14
RCWHORLM	0.11	0.88	-0.04	-0.14	-0.08	-0.03	-0.04	0.02	-0.16	0.09	-0.13
RDLOOPM	0.26	0.20	0.01	0.71	-0.06	-0.10	0.06	0.13	-0.21	-0.04	0.30
LARCHM	-0.04	-0.33	-0.01	0.00	-0.83	0.04	0.12	0.03	0.08	-0.04	0.04
LULOOMPM	-0.11	-0.61	0.13	-0.23	0.56	0.05	-0.01	-0.08	0.14	0.08	0.32
LCWHORLM	0.18	0.77	-0.04	-0.33	-0.04	-0.06	-0.10	-0.01	-0.13	0.05	-0.34
LDLOOPM	0.00	0.23	-0.12	0.84	-0.18	0.09	0.05	0.04	-0.06	0.00	-0.02
RTRADRCF	0.80	0.30	0.13	0.05	-0.05	0.10	-0.13	-0.23	0.06	-0.24	0.23
LTRADRCF	0.83	0.30	0.07	0.04	-0.08	0.03	-0.15	-0.13	0.04	-0.09	0.27
RTULNRFCF	0.90	0.25	0.09	0.06	0.02	0.07	0.16	0.01	-0.06	0.01	-0.04
LTULNRFCF	0.87	0.13	0.00	0.20	0.05	-0.02	0.05	0.10	0.16	0.16	-0.15
RTRCF	0.80	0.30	0.15	0.04	-0.07	0.12	-0.06	-0.23	0.06	-0.24	0.23
LTRCF	0.87	0.28	0.07	0.08	-0.11	0.04	-0.11	-0.08	0.08	-0.10	0.22
RTABSRCF	0.90	0.29	0.13	0.05	-0.02	0.09	0.01	-0.13	0.01	-0.14	0.11
LTABSRCF	0.93	0.25	0.05	0.11	-0.04	0.02	-0.08	-0.04	0.09	0.01	0.09
RTFPIF	0.87	0.06	-0.13	0.09	0.10	-0.07	0.08	-0.27	-0.10	0.13	-0.15
LTfPIF	0.78	0.01	-0.10	0.16	0.12	-0.18	-0.09	-0.35	0.10	0.18	-0.23
RTPRCF	0.12	0.04	0.84	0.10	0.13	0.04	-0.05	0.03	-0.14	-0.23	-0.10
LTPRCF	0.03	-0.02	0.90	0.15	0.12	0.04	0.06	0.01	-0.14	-0.16	0.03
TDRF	0.05	-0.12	0.02	-0.13	0.01	0.83	0.16	0.23	0.06	-0.03	-0.07
TDLF	0.00	-0.01	0.00	0.03	-0.04	0.79	0.12	-0.04	0.20	0.04	-0.02
RTPLMIF	0.02	-0.18	-0.13	-0.01	0.10	0.75	0.18	0.00	0.06	0.27	0.21
LTPLMIF	-0.12	-0.10	0.02	0.17	-0.05	0.81	0.18	-0.11	0.01	0.19	-0.04
RTOTHIF	0.17	-0.04	-0.12	-0.07	-0.04	0.21	0.02	-0.06	0.07	0.87	0.07
LTOTHIF	0.06	0.17	-0.16	-0.08	0.10	0.31	-0.02	-0.11	-0.04	0.66	-0.15
RARCHF	-0.30	0.12	0.11	0.13	-0.10	0.10	0.05	0.85	-0.02	-0.14	0.01
RULOOFF	-0.76	-0.15	0.05	-0.20	-0.02	-0.06	-0.17	-0.42	0.12	-0.01	0.14
RCWHORLF	0.83	0.06	-0.06	-0.13	0.09	-0.16	0.10	-0.09	-0.16	0.32	-0.03
RDLOOFF	0.35	0.12	0.04	0.63	0.10	0.18	0.08	0.12	0.02	-0.42	-0.27
LARCHF	-0.29	0.10	0.04	0.06	0.05	-0.03	0.11	0.87	-0.08	-0.05	-0.01
LULOOFF	-0.73	-0.07	0.01	-0.29	-0.19	0.15	0.05	-0.36	-0.07	-0.10	0.28
LCWHORLF	0.78	0.05	-0.12	-0.13	0.06	-0.12	-0.10	-0.13	0.20	0.22	-0.28
LDLOOFF	0.41	0.12	0.12	0.72	0.26	-0.08	0.03	0.03	-0.11	-0.06	-0.10

TABLE 5.8 : Eigenvalues for principal components analyses (males and females): based on summary traits.

Component	MALES			FEMALES		
	Eigen Value	Pcnt Var.	Cum Pcnt	Eigen Value	Pcnt Var.	Cum Pcnt
1	10.9	41.9	41.9	11.1	42.7	42.7
2	3.5	13.3	55.2	3.4	13.2	55.9
3	2.9	11.1	66.3	3.0	11.6	67.5
4	2.2	8.5	74.8	2.1	8.0	75.5
5	1.7	6.4	81.2	1.3	5.1	80.6
6	1.3	4.8	86.1	1.2	4.7	85.3
7	0.9	3.4	89.4	0.8	3.2	88.6
8	0.6	2.3	91.7	0.7	2.7	91.3
9	0.5	1.9	93.7	0.6	2.2	93.5
10	0.4	1.5	95.2	0.4	1.5	94.9
11	0.3	1.3	96.5	0.3	1.2	96.2
12	0.3	1.1	97.6	0.2	0.9	97.1
13	0.2	0.6	98.2	0.2	0.8	97.9
14	0.1	0.5	98.7	0.2	0.6	98.5
15	0.1	0.4	99.1	0.1	0.5	99.0
16	0.1	0.2	99.4	0.1	0.4	99.4
17	0.1	0.2	99.6	0.1	0.2	99.6
18	0.1	0.2	99.7	0.0	0.1	99.7
19	0.0	0.1	99.8	0.0	0.1	99.8
20	0.0	0.1	99.9	0.0	0.1	99.9
21	0.0	0.0	100.0	0.0	0.1	100.0
22	0.0	0.0	100.0	0.0	0.0	100.0
23	0.0	0.0	100.0	0.0	0.0	100.0
24	0.0	0.0	100.0	0.0	0.0	100.0
25	0.0	0.0	100.0	0.0	0.0	100.0
26	0.0	0.0	100.0	0.0	0.0	100.0

TABLE 5:9 PRINCIPAL COMPONENTS ANALYSIS(UNROTATED SOLUTION)-ANALYSIS BASED ON 26 SUMMARY TRAITS

TRAIT	MALES							FEMALES						
	COM1	COM2	COM3	COM4	COM5	COM6	CO/TY	COM1	COM2	COM3	COM4	COM5	COM6	CO/TY
RTRADRC	0.88	0.14	-0.35	-0.07	0.07	0.10	0.93	0.86	-0.09	0.04	0.37	-0.18	0.14	0.94
LTRADRC	0.86	0.15	-0.31	0.19	0.01	0.13	0.91	0.88	-0.05	0.00	0.21	-0.21	0.17	0.89
RTULNRC	0.90	0.00	0.27	0.02	0.06	0.04	0.90	0.92	0.00	0.15	-0.05	0.07	0.15	0.90
LTULNRC	0.84	-0.07	0.34	0.11	-0.18	0.03	0.87	0.89	0.04	0.09	-0.27	0.05	-0.07	0.88
RTRC	0.89	0.17	-0.30	-0.07	0.11	0.07	0.93	0.86	-0.07	0.08	0.38	-0.17	0.17	0.95
LTRC	0.87	0.17	-0.27	0.17	0.02	0.15	0.91	0.91	-0.06	0.05	0.16	-0.22	0.16	0.94
RTABSRC	0.97	0.09	-0.06	-0.04	0.06	0.08	0.96	0.94	-0.06	0.10	0.20	-0.07	0.16	0.97
LTABSRC	0.94	0.07	-0.06	0.20	-0.09	0.11	0.95	0.97	-0.01	0.04	0.02	-0.11	0.08	0.96
RTFPI	0.92	-0.06	-0.02	-0.16	0.11	-0.08	0.89	0.89	0.17	-0.17	-0.09	0.11	-0.12	0.88
LTFFPI	0.89	-0.19	0.02	-0.05	-0.14	-0.08	0.86	0.83	0.15	-0.30	-0.07	0.10	-0.33	0.93
RTPRC	-0.02	0.36	-0.02	0.67	0.58	-0.10	0.93	0.16	-0.55	0.36	0.40	0.53	0.06	0.90
LTPRC	-0.02	0.31	0.11	0.69	0.55	-0.09	0.90	0.08	-0.52	0.38	0.44	0.55	0.08	0.94
TDR	0.14	0.74	0.20	-0.35	-0.02	-0.27	0.80	-0.04	0.44	0.72	0.05	-0.09	0.07	0.72
TDL	0.31	0.56	0.28	-0.27	0.04	-0.44	0.75	0.00	0.51	0.59	0.20	-0.19	-0.12	0.70
RTPLMI	-0.04	0.85	0.14	-0.09	-0.26	-0.02	0.82	-0.04	0.66	0.53	0.09	-0.03	-0.05	0.73
LTPLMI	0.01	0.78	0.29	-0.15	0.03	-0.23	0.77	-0.11	0.56	0.62	0.18	0.08	-0.20	0.79
RTOTHI	-0.23	0.58	-0.14	0.32	-0.38	0.41	0.82	0.16	0.70	-0.03	-0.22	0.34	0.12	0.69
LTOTHI	-0.04	0.65	-0.26	0.02	-0.21	0.48	0.77	0.10	0.62	0.02	-0.16	0.46	0.21	0.67
RARCH	-0.48	-0.01	0.68	0.35	-0.05	0.22	0.86	-0.35	-0.39	0.56	-0.43	-0.15	0.31	0.89
RULOOD	-0.73	0.06	-0.52	-0.07	-0.11	-0.01	0.83	-0.73	0.11	-0.32	0.44	0.04	-0.15	0.87
RCWHORL	0.82	-0.16	0.15	0.21	-0.21	-0.12	0.83	0.80	0.19	-0.21	-0.18	0.24	0.21	0.86
RDLOOP	0.37	-0.07	0.34	-0.39	0.55	0.34	0.82	0.43	-0.36	0.48	-0.12	-0.16	-0.54	0.88
LARCH	-0.50	0.06	0.68	0.23	-0.17	0.18	0.82	-0.35	-0.39	0.44	-0.56	-0.02	0.34	0.90
LULOOD	-0.54	0.20	-0.66	-0.14	0.26	-0.03	0.86	-0.73	0.18	-0.13	0.51	-0.08	0.14	0.88
LCWHORL	0.69	-0.23	0.05	0.39	-0.40	-0.28	0.92	0.77	0.24	-0.27	-0.19	0.03	-0.04	0.76
LDLOOP	0.32	-0.01	0.47	-0.49	0.23	0.39	0.77	0.52	-0.37	0.25	-0.17	0.21	-0.48	0.77

TABLE 5:10: PRINCIPAL COMPONENTS ANALYSIS(VARIMAX ROTATED SOLUTION)-ANALYSIS BASED ON 26 SUMMARY TRAITS.

TRAIT	MALES							FEMALES						
	COM1	COM2	COM3	COM4	COM5	COM6	COM1	COM2	COM3	COM4	COM5	COM6		
RTRADRC	0.76	0.55	0.05	0.16	0.16	0.03	0.92	0.03	0.20	-0.14	0.03	0.16		
LTRADRC	0.63	0.64	-0.03	0.04	0.25	0.17	0.93	-0.01	0.13	-0.07	0.07	0.03		
RTULNRC	0.26	0.84	0.13	0.33	-0.08	0.06	0.86	0.02	-0.03	0.22	0.30	0.11		
LTULNRC	0.09	0.91	0.08	0.16	-0.03	-0.05	0.73	-0.02	0.00	0.26	0.52	-0.07		
RTRC	0.74	0.56	0.10	0.19	0.12	0.06	0.93	0.06	0.19	-0.13	0.02	0.18		
LTRC	0.62	0.66	0.00	0.08	0.24	0.17	0.95	0.00	0.09	-0.07	0.13	0.01		
RTABSRC	0.57	0.74	0.10	0.26	0.06	0.04	0.96	0.02	0.10	0.03	0.16	0.15		
LTABSRC	0.45	0.84	0.00	0.08	0.16	0.10	0.93	-0.01	0.09	0.08	0.28	-0.01		
RTFPI	0.55	0.69	0.10	0.26	-0.19	-0.05	0.71	-0.09	0.31	0.32	0.40	-0.09		
LTFFPI	0.41	0.80	-0.01	0.09	-0.16	-0.17	0.59	-0.17	0.47	0.26	0.48	-0.15		
RTPRC	0.01	-0.03	0.07	-0.07	0.06	0.96	0.13	-0.06	-0.07	-0.10	0.12	0.92		
LTPRC	-0.11	0.03	0.06	-0.04	0.03	0.94	0.06	-0.01	-0.07	-0.10	0.06	0.96		
TDR	0.09	0.01	0.88	0.10	0.12	-0.03	0.04	0.81	-0.23	0.08	-0.03	0.02		
TDL	0.11	0.20	0.82	0.06	-0.13	0.03	0.05	0.83	0.03	-0.03	-0.02	-0.07		
RTPLMI	-0.09	-0.03	0.74	-0.07	0.51	0.00	-0.02	0.82	0.02	0.22	-0.05	-0.09		
LTPLMI	-0.08	-0.03	0.84	0.06	0.17	0.15	-0.14	0.86	0.08	0.14	0.06	0.08		
RTOTHI	-0.16	-0.09	0.11	-0.24	0.84	0.09	0.06	0.26	0.13	0.75	-0.02	-0.19		
LTOTHI	0.15	-0.13	0.21	0.03	0.83	0.01	0.02	0.24	0.06	0.77	-0.09	-0.02		
RARCH	-0.89	-0.04	-0.06	0.10	0.11	0.20	-0.21	0.09	-0.89	-0.20	0.05	0.08		
RULOOD	0.03	-0.79	-0.13	-0.38	0.19	-0.12	-0.67	-0.03	0.42	-0.19	-0.46	0.05		
RCWHORL	0.20	0.88	-0.02	-0.06	-0.11	-0.02	0.70	-0.19	0.11	0.54	0.17	-0.05		
RDLOOP	0.12	0.16	0.02	0.87	-0.16	0.06	0.26	0.20	-0.09	-0.41	0.76	0.12		
LARCH	-0.89	-0.06	0.06	0.06	0.14	0.06	-0.26	-0.05	-0.90	-0.04	0.08	0.06		
LULOOD	0.36	-0.82	-0.03	-0.17	0.13	0.11	-0.53	0.16	0.22	-0.20	-0.69	0.07		
LCWHORL	0.13	0.85	-0.09	-0.39	-0.13	-0.03	0.63	-0.14	0.25	0.36	0.29	-0.26		
LDLOOP	-0.05	0.22	0.13	0.81	-0.03	-0.21	0.26	-0.05	0.02	-0.08	0.79	0.27		

TABLE 5.11 : EIGENVALUES FOR PRINCIPAL COMPONENTS ANALYSES :-
BASED ON 80 DIGITAL TRAITS.

				MALES				FEMALES			
COMP	EIGNV.	PCT.	CUM. PCT	COMP	EIGNV.	PCT.	CUM. PCT	COMP	EIGNV.	PCT.	CUM. PCT
1	22.1	27.7	27.7	1	21.2	26.5	26.5	41	0.1	0.1	99.4
2	8.0	10.0	37.7	2	7.6	9.5	36.0	42	0.1	0.1	99.5
3	7.4	9.2	46.9	3	6.3	7.9	43.9	43	0.1	0.1	99.6
4	4.5	5.7	52.6	4	4.5	5.6	49.5	44	0.1	0.1	99.7
5	3.8	4.7	57.3	5	4.2	5.3	54.8	45	0.1	0.1	99.8
6	3.2	4.0	61.3	6	3.4	4.2	59.0	46	0.0	0.0	99.8
7	3.2	3.9	65.3	7	3.1	3.9	62.9	47	0.0	0.0	99.9
8	2.7	3.3	68.6	8	2.7	3.3	66.2	48	0.0	0.0	99.9
9	2.3	2.8	71.4	9	2.3	2.9	69.1	49	0.0	0.0	99.9
10	2.0	2.5	73.9	10	2.2	2.7	71.8	50	0.0	0.0	100.0
11	1.7	2.1	76.0	11	2.0	2.5	74.3	51	0.0	0.0	100.0
12	1.7	2.1	78.1	12	1.9	2.4	76.7	52	0.0	0.0	100.0
13	1.6	2.0	80.1	13	1.8	2.2	78.9	53	0.0	0.0	100.0
14	1.4	1.7	81.8	14	1.6	2.1	80.9	54	0.0	0.0	100.0
15	1.3	1.6	83.4	15	1.5	1.9	82.8	55	0.0	0.0	100.0
16	1.2	1.5	84.9	16	1.3	1.7	84.5	56	0.0	0.0	100.0
17	1.1	1.4	86.3	17	1.3	1.6	86.1	57	0.0	0.0	100.0
18	1.0	1.3	87.6	18	1.1	1.4	87.5	58	0.0	0.0	100.0
19	1.0	1.2	88.9	19	1.0	1.2	88.7	59	0.0	0.0	100.0
20	0.9	1.2	90.0	20	1.0	1.2	89.9	60	0.0	0.0	100.0
21	0.8	1.0	91.1	21	0.8	1.1	91.0	61	0.0	0.0	100.0
22	0.8	1.0	92.0	22	0.8	1.0	92.0	62	0.0	0.0	100.0
23	0.7	0.9	92.9	23	0.6	0.8	92.7	63	0.0	0.0	100.0
24	0.6	0.8	93.7	24	0.6	0.7	93.5	64	0.0	0.0	100.0
25	0.5	0.7	94.3	25	0.5	0.7	94.1	65	0.0	0.0	100.0
26	0.5	0.6	95.0	26	0.5	0.6	94.8	66	0.0	0.0	100.0
27	0.4	0.5	95.5	27	0.5	0.6	95.3	67	0.0	0.0	100.0
28	0.4	0.5	96.0	28	0.4	0.5	95.9	68	0.0	0.0	100.0
29	0.4	0.5	96.4	29	0.4	0.5	96.3	69	0.0	0.0	100.0
30	0.3	0.4	96.9	30	0.3	0.4	96.8	70	0.0	0.0	100.0
31	0.3	0.4	97.3	31	0.3	0.4	97.2	71	0.0	0.0	100.0
32	0.3	0.3	97.6	32	0.3	0.4	97.5	72	0.0	0.0	100.0
33	0.3	0.3	97.9	33	0.3	0.3	97.8	73	0.0	0.0	100.0
34	0.2	0.3	98.2	34	0.2	0.3	98.2	74	0.0	0.0	100.0
35	0.2	0.3	98.5	35	0.2	0.3	98.4	75	0.0	0.0	100.0
36	0.2	0.2	98.7	36	0.2	0.2	98.6	76	0.0	0.0	100.0
37	0.1	0.2	98.9	37	0.2	0.2	98.8	77	0.0	0.0	100.0
38	0.1	0.2	99.0	38	0.1	0.2	99.0	78	0.0	0.0	100.0
39	0.1	0.1	99.2	39	0.1	0.2	99.2	79	0.0	0.0	100.0
40	0.1	0.1	99.3	40	0.1	0.1	99.3	80	0.0	0.0	100.0

COMP = COMPONENT, EIGV. = EIGENVALUE, PCT. = PERCENT.
CUM. PCT = CUMULATIVE PERCENT.

TABLE 5.12 : PRINCIPAL COMPONENTS ANALYSIS(UNROTATED SOLUTION)-
BASED ON 80 DIGITAL TRAITS - (MALES).

TRAIT	COM1	COM2	COM3	COM4	COM5	COM6	COM7	COM8	COM9	COM10	COMMUNALITY
RFR1	0.67	-0.10	-0.24	0.27	0.06	-0.05	0.41	-0.06	-0.09	-0.08	0.88
RFU1	0.46	0.73	0.08	0.28	-0.19	-0.06	-0.14	0.02	0.08	0.02	0.94
RFR2	0.64	-0.35	-0.18	-0.13	-0.03	0.00	0.11	-0.20	0.22	0.06	0.89
RFU2	0.70	0.31	0.01	-0.29	-0.27	0.00	0.18	0.28	-0.04	-0.07	0.93
RFR3	0.76	-0.09	-0.33	-0.13	-0.05	-0.01	0.04	0.20	0.09	0.28	0.88
RFU3	0.75	0.17	0.17	-0.31	0.14	0.12	-0.10	-0.01	-0.08	0.08	0.89
RFR4	0.66	0.26	-0.42	-0.06	-0.17	-0.12	0.06	0.30	0.01	0.21	0.90
RFU4	0.86	-0.14	0.16	-0.03	-0.07	-0.01	-0.18	0.20	-0.05	-0.11	0.90
RFR5	0.75	0.20	-0.30	-0.12	-0.03	-0.22	0.03	0.13	0.02	0.16	0.86
RFU5	0.62	-0.23	0.30	0.16	0.24	-0.35	-0.16	-0.05	0.04	0.01	0.91
LFR1	0.70	-0.18	-0.10	0.22	0.01	-0.22	0.36	-0.12	0.00	-0.03	0.88
LFU1	0.32	0.74	0.19	0.39	-0.10	0.08	0.07	-0.17	0.07	-0.03	0.93
LFR2	0.74	-0.23	-0.09	-0.19	-0.23	-0.17	0.07	-0.10	0.29	0.09	0.87
LFU2	0.56	0.22	0.19	-0.27	-0.03	0.25	0.40	0.09	-0.11	0.04	0.93
LFR3	0.76	-0.08	-0.18	-0.24	-0.23	-0.10	0.07	0.10	0.22	0.23	0.92
LFU3	0.72	-0.09	0.14	-0.14	0.13	0.10	0.06	-0.43	-0.17	0.13	0.91
LFR4	0.75	0.10	-0.26	-0.25	-0.12	-0.23	0.01	0.21	0.04	0.17	0.90
LFU4	0.73	-0.27	0.19	0.09	0.12	0.29	-0.17	0.08	-0.01	0.20	0.94
LFR5	0.78	0.04	-0.20	-0.06	-0.07	-0.22	-0.13	0.11	-0.04	0.18	0.87
LFU5	0.55	-0.21	0.53	0.41	0.15	0.00	0.17	0.09	0.22	0.06	0.92
RD1	0.63	0.55	-0.10	0.33	-0.05	-0.11	-0.11	-0.13	0.00	-0.11	0.90
RD2	0.72	0.00	-0.22	-0.29	-0.20	0.19	0.10	0.10	0.03	-0.22	0.89
RD3	0.80	0.10	-0.22	-0.22	0.17	0.16	-0.16	-0.05	-0.16	0.05	0.88
RD4	0.78	-0.13	-0.06	-0.16	-0.02	-0.09	-0.12	0.28	0.04	-0.21	0.93
RD5	0.69	-0.23	0.12	0.23	0.25	-0.18	-0.35	0.12	0.05	-0.08	0.95
LD1	0.45	0.61	0.09	0.46	-0.02	0.02	0.16	-0.15	0.07	-0.26	0.96
LD2	0.74	0.03	-0.06	0.01	-0.23	0.16	0.22	-0.11	-0.03	-0.02	0.91
LD3	0.78	-0.01	-0.15	-0.05	0.13	0.18	0.13	-0.41	-0.20	0.06	0.94
LD4	0.77	-0.33	0.01	0.12	0.14	0.29	-0.08	0.10	-0.02	0.06	0.91
LD5	0.60	-0.17	0.33	0.47	0.28	-0.14	-0.03	0.07	0.03	0.17	0.95
ARCHR1	-0.48	0.35	0.38	-0.26	-0.09	0.14	-0.22	0.11	0.15	0.09	0.77
ARCHR2	-0.38	0.27	0.53	-0.22	0.33	-0.35	-0.04	0.05	0.09	-0.06	0.90
ARCHR3	-0.35	0.22	0.66	-0.22	-0.16	-0.27	0.15	-0.01	0.06	-0.05	0.89
ARCHR4	-0.30	-0.06	0.62	-0.09	-0.34	0.03	-0.03	-0.08	-0.19	-0.09	0.88
ARCHR5	-0.31	0.03	0.53	-0.25	-0.17	-0.20	0.07	0.04	-0.35	0.08	0.83
ARCHL1	-0.40	0.28	0.27	-0.33	-0.07	0.23	-0.37	0.14	-0.03	0.49	0.91
ARCHL2	-0.33	0.26	0.54	-0.22	0.28	-0.19	0.07	0.00	0.31	-0.07	0.90
ARCHL3	-0.44	0.05	0.69	-0.18	-0.06	-0.25	-0.09	0.03	0.15	0.13	0.87
ARCHL4	-0.25	0.02	0.60	-0.37	0.20	0.17	-0.18	-0.19	-0.09	-0.14	0.83
ARCHL5	-0.36	-0.09	0.45	-0.29	-0.11	0.20	0.27	0.04	0.00	-0.02	0.88
ULOPR1	-0.30	-0.79	-0.14	-0.17	0.11	-0.01	0.27	0.04	-0.11	0.04	0.93
ULOPR2	-0.47	-0.39	-0.23	0.30	0.10	0.13	-0.16	-0.32	0.07	0.21	0.90
ULOPR3	-0.57	-0.30	-0.37	0.40	-0.06	0.02	0.02	0.04	0.12	0.01	0.85
ULOPR4	-0.69	0.16	-0.24	0.21	0.17	0.05	0.15	-0.26	0.07	0.32	0.91
ULOPR5	-0.51	0.21	-0.44	-0.13	-0.11	0.33	0.30	-0.12	0.19	0.01	0.94
ULOPL1	-0.20	-0.84	-0.25	-0.23	0.08	-0.20	0.09	0.10	-0.08	-0.05	0.95
ULOPL2	-0.18	-0.43	-0.54	0.07	0.04	-0.24	-0.32	-0.08	0.08	-0.06	0.93
ULOPL3	-0.41	-0.05	-0.56	0.16	-0.20	0.03	-0.06	0.36	0.23	-0.15	0.86
ULOPL4	-0.60	0.34	-0.30	-0.01	-0.26	-0.41	0.15	-0.03	-0.01	-0.01	0.91
ULOPL5	-0.35	0.26	-0.70	-0.31	-0.21	-0.02	-0.16	-0.14	-0.11	-0.18	0.93
RADLR1	0.02	0.39	-0.15	0.18	-0.07	0.35	-0.32	0.10	0.20	0.16	0.87
RADLR2	-0.11	0.27	0.04	0.43	-0.31	-0.04	0.15	0.31	-0.39	0.25	0.88
RADLR3	-0.27	-0.06	0.14	0.31	0.04	0.17	0.18	0.22	0.08	-0.15	0.77
RADLR4	0.02	0.02	0.04	0.10	0.19	0.23	0.01	-0.03	-0.14	-0.49	0.72
RADLR5	0.04	0.04	0.18	0.33	-0.39	-0.33	0.06	-0.17	-0.34	0.23	0.83
RADLL1	0.08	0.24	-0.19	-0.11	-0.14	0.28	-0.18	-0.40	0.31	-0.05	0.78
RADLL2	-0.42	0.19	0.19	0.17	-0.04	0.41	0.01	0.31	-0.44	0.23	0.87
RADLL3	-0.12	-0.09	-0.12	0.31	0.32	0.11	0.11	0.30	-0.47	-0.20	0.75
RADLL4	-0.33	-0.12	0.04	0.34	0.10	0.20	0.12	0.15	0.43	0.12	0.83
RADLL5	-0.24	-0.23	0.42	0.04	-0.09	0.14	0.07	0.25	0.47	0.11	0.81
WHORL1	0.51	0.40	0.17	0.23	-0.43	0.15	0.12	0.01	0.05	-0.06	0.85
WHORL2	0.44	-0.06	0.27	-0.25	-0.49	0.15	0.12	-0.01	0.20	-0.21	0.86
WHORL3	0.74	0.04	0.12	-0.20	-0.03	-0.02	-0.27	0.02	-0.07	-0.07	0.88
WHORL4	0.79	-0.20	0.25	0.01	-0.13	0.14	-0.28	0.04	0.07	-0.14	0.90
WHORL5	0.56	-0.30	0.28	0.14	0.32	-0.12	0.08	-0.07	0.07	-0.10	0.90
WHORLL1	0.27	0.26	0.20	0.34	-0.35	-0.32	0.23	-0.40	-0.03	-0.01	0.83
WHORLL2	0.51	-0.30	0.40	-0.06	-0.24	0.18	0.30	-0.09	0.10	-0.10	0.93
WHORLL3	0.76	-0.07	0.18	-0.14	-0.04	0.07	-0.23	-0.29	-0.09	0.02	0.84
WHORLL4	0.61	-0.48	0.24	0.10	-0.04	0.22	-0.24	0.02	-0.12	0.07	0.93
WHORLL5	0.55	-0.34	0.44	0.39	0.10	0.12	0.09	0.09	0.00	0.02	0.85
DLOPR1	0.14	0.50	-0.18	0.09	0.40	-0.22	-0.35	-0.09	-0.02	-0.03	0.86
DLOPR2	0.34	0.26	-0.22	-0.36	0.39	-0.04	0.16	0.17	0.01	-0.22	0.80
DLOPR3	0.24	0.35	-0.21	-0.29	0.33	0.11	0.19	-0.10	-0.13	0.15	0.86
DLOPR4	0.02	0.33	-0.02	-0.24	0.35	-0.31	0.41	0.32	-0.01	-0.11	0.85
DLOPR5	0.22	0.26	0.01	0.08	0.01	-0.34	-0.45	-0.04	0.04	-0.12	0.85
DLOPL1	0.16	0.67	0.09	0.17	0.24	-0.36	-0.12	0.19	0.06	-0.11	0.87
DLOPL2	0.26	0.62	-0.16	-0.10	0.34	-0.12	0.04	0.00	-0.03	0.09	0.79
DLOPL3	0.12	0.17	0.05	-0.25	0.49	0.07	0.37	-0.36	0.10	0.28	0.79
DLOPL4	0.09	0.40	-0.22	-0.01	0.43	0.35	0.17	0.08	0.13	0.00	0.76
DLOPL5	0.17	0.16	0.18	0.14	0.30	-0.26	0.27	0.21	0.13	0.21	0.76

TABLE 5.12 : (CONTINUED)

TRAIT	COM11	COM12	COM13	COM14	COM15	COM16	COM17	COM18
RFR1	-0.06	0.23	-0.01	-0.08	0.18	0.03	-0.03	0.01
RFU1	-0.11	0.02	-0.07	0.09	0.05	0.12	-0.01	-0.03
RFR2	0.15	0.10	0.11	0.10	0.35	0.08	-0.02	0.07
RFU2	0.17	-0.04	-0.12	-0.06	0.00	-0.14	0.06	-0.03
RFR3	-0.04	0.10	0.07	-0.12	0.12	-0.03	-0.01	-0.03
RFU3	0.16	-0.02	-0.19	0.06	0.12	0.11	0.13	0.07
RFR4	-0.16	0.04	0.07	-0.01	-0.03	0.06	-0.03	0.03
RFU4	-0.01	0.16	-0.08	0.01	-0.02	-0.03	-0.03	0.01
RFR5	-0.12	0.11	0.11	0.07	-0.12	0.03	-0.02	0.06
RFU5	0.28	-0.07	0.07	0.01	-0.01	0.07	-0.23	0.06
LFR1	-0.03	0.15	0.05	-0.06	0.25	0.06	-0.08	0.04
LFU1	-0.04	0.08	-0.10	0.00	0.11	0.00	0.01	0.03
LFR2	0.11	0.00	-0.02	-0.10	0.09	0.13	0.00	0.04
LFU2	0.10	-0.06	0.43	0.05	-0.04	-0.05	0.08	-0.04
LFR3	-0.13	-0.09	0.05	-0.03	0.14	0.09	0.03	0.07
LFU3	0.08	0.10	-0.20	-0.14	-0.03	0.01	0.05	-0.04
LFR4	-0.19	0.02	-0.01	0.04	0.03	0.07	0.06	0.10
LFU4	-0.27	0.14	0.07	-0.03	0.14	0.02	0.00	0.03
LFR5	-0.11	0.07	0.14	0.16	0.02	0.15	-0.07	0.07
LFU5	0.01	-0.03	-0.06	0.06	-0.01	0.00	-0.02	-0.09
RD1	-0.13	-0.05	0.04	0.04	0.00	0.09	-0.04	0.00
RD2	0.15	-0.18	-0.16	0.04	0.06	-0.04	-0.07	-0.08
RD3	0.10	-0.10	-0.03	0.00	-0.03	-0.02	-0.01	0.04
RD4	-0.12	0.18	-0.06	0.09	-0.18	-0.12	-0.02	-0.13
RD5	0.06	-0.19	0.13	-0.07	-0.03	-0.24	-0.03	0.01
LD1	-0.05	0.03	0.03	-0.16	0.02	0.02	-0.10	0.01
LD2	0.20	-0.12	0.30	0.10	-0.20	0.03	-0.13	-0.07
LD3	-0.02	0.04	-0.02	-0.10	-0.11	-0.02	0.06	-0.01
LD4	-0.27	0.03	-0.06	-0.02	-0.03	-0.05	0.02	-0.04
LD5	0.08	-0.10	-0.07	0.15	-0.07	-0.04	0.20	-0.04
ARCHR1	-0.01	0.08	0.06	-0.10	-0.07	0.08	-0.09	-0.20
ARCHR2	-0.15	0.14	-0.04	-0.14	-0.20	0.04	0.03	0.05
ARCHR3	-0.15	-0.15	0.01	0.01	0.06	0.13	0.16	0.13
ARCHR4	0.09	-0.02	0.03	0.03	0.31	0.23	0.12	0.24
ARCHR5	0.06	0.09	0.16	0.09	0.16	0.06	-0.34	0.02
ARCHL1	-0.02	-0.06	-0.11	0.13	-0.05	0.01	-0.02	-0.02
ARCHL2	-0.18	0.16	0.12	0.03	-0.01	-0.03	0.29	0.02
ARCHL3	-0.03	-0.07	-0.17	0.11	0.04	-0.03	-0.06	-0.08
ARCHL4	0.00	0.16	0.20	0.07	0.13	-0.03	-0.04	0.08
ARCHL5	-0.05	0.36	0.08	-0.22	0.18	0.01	-0.32	-0.04
ULOOPR1	0.10	-0.01	-0.07	-0.01	0.05	-0.14	0.09	0.13
ULOOPR2	-0.08	0.07	0.23	0.24	0.21	0.06	-0.03	-0.08
ULOOPR3	0.00	0.17	0.08	-0.07	-0.01	-0.13	-0.12	-0.19
ULOOPR4	0.12	-0.16	0.04	-0.14	0.02	0.02	-0.06	0.00
ULOOPR5	-0.10	0.17	-0.20	0.01	-0.08	0.21	0.20	0.01
ULOOPL1	0.04	-0.02	0.03	0.07	0.02	0.00	0.10	0.01
ULOOPL2	-0.13	0.05	-0.42	-0.14	0.08	0.07	-0.11	0.09
ULOOPL3	-0.04	-0.02	0.24	0.05	0.13	0.05	-0.01	0.09
ULOOPL4	0.26	-0.03	-0.07	0.01	-0.04	0.04	-0.02	-0.04
ULOOPL5	-0.04	-0.10	0.04	0.00	-0.05	0.07	0.04	0.04
RADLR1	0.42	0.17	-0.04	0.37	-0.06	-0.02	0.08	0.06
RADLR2	0.07	0.04	0.03	-0.27	-0.19	-0.07	0.16	0.19
RADLR3	0.02	0.38	-0.35	0.29	0.02	0.24	-0.06	0.14
RADLR4	-0.27	-0.27	0.05	0.27	0.22	-0.11	0.18	0.19
RADLR5	0.02	-0.25	-0.21	0.05	0.18	-0.04	0.17	-0.23
RADLL1	0.21	0.32	0.14	0.10	0.01	-0.27	0.17	-0.06
RADLL2	0.10	-0.02	0.00	-0.05	0.22	-0.12	-0.04	-0.04
RADLL3	0.19	0.17	0.02	-0.12	-0.14	0.10	0.05	0.17
RADLL4	0.06	-0.38	0.21	-0.19	0.01	0.14	0.07	0.23
RADLL5	-0.05	-0.23	-0.15	-0.12	0.03	-0.24	-0.18	0.12
WHORLR1	-0.15	-0.02	-0.14	0.19	0.05	-0.14	-0.10	0.01
WHORLR2	0.17	0.05	-0.05	-0.25	-0.17	-0.03	-0.07	0.18
WHORLR3	0.20	-0.13	-0.06	-0.16	0.24	0.13	0.16	-0.09
WHORLR4	0.03	-0.01	-0.14	-0.06	-0.08	0.01	-0.01	0.10
WHORLR5	0.33	-0.06	-0.05	0.12	-0.21	0.21	-0.18	0.02
WHORLL1	-0.16	-0.02	-0.02	0.09	-0.08	-0.22	-0.07	0.09
WHORLL2	0.05	-0.15	0.24	0.03	-0.22	0.13	0.17	-0.16
WHORLL3	-0.03	-0.02	-0.10	-0.15	-0.04	0.06	0.08	-0.08
WHORLL4	-0.27	0.20	0.10	0.03	-0.09	-0.02	0.06	0.00
WHORLL5	-0.10	-0.15	0.02	0.05	0.03	0.03	-0.04	-0.12
DLOOPR1	-0.04	-0.01	0.26	-0.16	-0.03	0.33	-0.01	-0.06
DLOOPR2	0.12	-0.20	-0.19	0.14	0.15	-0.02	-0.14	-0.16
DLOOPR3	-0.22	-0.22	-0.01	0.19	-0.14	-0.08	-0.14	0.41
DLOOPR4	-0.14	0.08	0.09	0.06	0.09	-0.09	0.12	-0.33
DLOOPR5	0.14	0.17	0.16	-0.25	0.20	-0.40	0.10	0.20
DLOOPL1	0.00	-0.01	0.02	-0.22	0.08	0.19	-0.09	-0.06
DLOOPL2	0.16	0.00	0.05	0.19	0.06	-0.19	-0.23	0.12
DLOOPL3	-0.12	0.04	-0.15	-0.10	-0.12	-0.11	-0.06	0.09
DLOOPL4	0.02	-0.20	-0.16	-0.21	0.25	-0.07	0.05	-0.10
DLOOPL5	0.33	0.32	-0.06	0.06	0.07	-0.03	0.29	0.10

TABLE 5.13 : PRINCIPAL COMPONENTS ANALYSIS(UNROTATED SOLUTION):-
BASED ON 80 DIGITAL TRAITS(FEMALES).

TRAIT	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10	COMMUNALITY
RFR1	0.60	-0.09	-0.07	0.26	0.09	0.36	0.19	-0.13	-0.04	-0.17	0.82
RFU1	0.52	0.54	-0.39	0.26	-0.10	-0.12	0.08	0.22	0.12	0.05	0.91
RFR2	0.69	-0.25	0.06	0.25	-0.01	0.11	0.20	0.15	-0.11	-0.11	0.78
RFU2	0.76	0.32	0.09	-0.24	0.02	0.22	-0.06	0.23	-0.18	-0.09	0.95
RFR3	0.72	0.07	0.01	-0.18	0.05	0.41	0.08	0.00	-0.15	-0.13	0.86
RFU3	0.64	0.17	0.22	-0.01	-0.49	-0.02	0.09	-0.08	0.30	0.10	0.94
RFR4	0.60	0.33	-0.12	-0.34	-0.10	0.32	-0.05	0.11	0.16	0.14	0.87
RFU4	0.83	-0.26	0.22	0.05	-0.14	-0.10	0.01	0.06	0.06	0.14	0.95
RFR5	0.65	0.12	0.01	-0.16	-0.07	0.50	-0.01	0.04	0.25	0.28	0.93
RFU5	0.63	-0.24	0.23	0.19	-0.18	-0.01	-0.49	0.07	-0.11	0.02	0.87
LFR1	0.56	-0.12	-0.19	0.38	0.13	0.33	0.23	-0.23	-0.06	-0.07	0.89
LFU1	0.51	0.58	-0.42	0.19	-0.02	-0.16	0.08	-0.02	0.04	-0.03	0.93
LFR2	0.74	-0.15	0.10	0.24	-0.03	0.21	0.17	0.18	-0.20	0.11	0.88
LFU2	0.69	0.30	0.24	-0.33	-0.03	-0.04	-0.12	-0.02	-0.27	-0.13	0.89
LFR3	0.81	0.02	0.24	-0.02	-0.07	0.29	0.19	-0.05	0.10	-0.04	0.88
LFU3	0.74	-0.03	0.38	-0.25	-0.15	-0.10	0.02	0.02	0.00	0.11	0.88
LFR4	0.72	0.18	0.07	-0.30	-0.03	0.25	0.02	0.09	0.18	0.17	0.89
LFU4	0.61	-0.37	0.06	-0.11	0.31	-0.24	0.30	0.16	0.12	-0.22	0.94
LFR5	0.71	0.04	0.04	-0.04	-0.02	0.39	0.06	0.08	0.14	0.26	0.88
LFU5	0.59	-0.32	0.24	0.08	0.40	0.01	-0.32	-0.10	0.15	0.00	0.89
RD1	0.57	0.36	-0.48	0.33	-0.10	-0.08	0.06	-0.18	0.06	0.02	0.92
RD2	0.74	0.03	-0.10	-0.18	0.14	0.04	-0.05	0.09	-0.30	-0.08	0.93
RD3	0.68	-0.06	0.08	-0.14	-0.44	0.01	0.08	-0.20	0.17	-0.14	0.90
RD4	0.77	-0.28	-0.03	0.01	-0.07	-0.19	0.03	0.03	0.04	0.11	0.91
RD5	0.55	-0.27	-0.04	0.21	-0.11	-0.06	-0.58	0.10	0.03	0.07	0.90
LD1	0.54	0.32	-0.57	0.34	-0.02	-0.13	0.08	-0.21	-0.03	-0.06	0.94
LD2	0.80	-0.06	-0.14	-0.23	0.10	-0.08	-0.05	-0.07	-0.32	0.05	0.91
LD3	0.72	-0.31	0.11	-0.27	-0.18	-0.16	0.17	-0.09	0.03	-0.11	0.88
LD4	0.57	-0.43	-0.19	-0.15	0.37	-0.27	0.25	0.17	0.08	-0.19	0.96
LD5	0.54	-0.30	-0.09	0.00	0.49	0.06	-0.39	-0.09	0.24	-0.07	0.92
ARCHR1	-0.41	0.29	0.28	-0.28	0.02	-0.25	-0.01	0.23	-0.16	-0.03	0.89
ARCHR2	-0.25	0.47	0.32	0.25	0.28	-0.05	-0.12	0.18	0.23	-0.24	0.87
ARCHR3	-0.33	0.47	0.40	0.05	0.25	-0.15	0.05	0.29	0.13	0.18	0.84
ARCHR4	-0.26	0.26	0.69	0.16	-0.11	0.11	0.13	-0.16	0.05	-0.14	0.87
ARCHR5	-0.01	0.19	0.59	0.16	-0.11	-0.06	0.17	-0.18	-0.36	0.02	0.78
ARCHL1	-0.30	0.17	0.51	-0.26	-0.11	-0.47	-0.12	0.16	0.11	0.08	0.91
ARCHL2	-0.34	0.44	0.46	0.22	0.22	-0.12	-0.04	0.11	0.13	-0.05	0.85
ARCHL3	-0.27	0.57	0.26	0.34	0.23	-0.11	-0.14	0.19	0.00	0.09	0.88
ARCHL4	-0.19	0.19	0.50	0.27	-0.17	0.27	0.14	-0.20	-0.31	0.20	0.91
ARCHL5	-0.14	0.10	0.62	0.24	-0.12	-0.14	0.20	-0.13	-0.21	0.25	0.79
ULDOPR1	-0.35	-0.67	0.32	-0.12	0.11	0.36	-0.08	-0.03	0.05	-0.07	0.91
ULDOPR2	-0.46	-0.61	-0.16	0.12	-0.20	-0.11	0.13	-0.25	0.11	0.30	0.94
ULDOPR3	-0.40	-0.42	-0.49	0.04	0.30	0.10	-0.13	-0.08	-0.37	0.04	0.94
ULDOPR4	-0.67	0.21	-0.40	-0.14	0.12	0.17	-0.14	0.03	-0.08	-0.02	0.91
ULDOPR5	-0.49	0.11	-0.40	-0.34	0.17	0.11	0.40	0.03	0.25	-0.08	0.93
ULOPL1	-0.42	-0.61	0.27	-0.10	0.06	0.48	0.04	0.02	-0.03	0.00	0.92
ULOPL2	-0.49	-0.46	-0.24	0.30	-0.21	0.17	0.10	0.21	0.16	0.17	0.91
ULOPL3	-0.47	-0.29	-0.37	0.10	0.01	0.22	0.01	0.00	0.10	0.09	0.91
ULOPL4	-0.55	0.39	-0.16	-0.07	-0.34	0.12	-0.43	-0.08	0.06	0.17	0.92
ULOPL5	-0.42	0.25	-0.49	-0.30	-0.40	0.04	0.24	0.16	-0.07	-0.11	0.91
RADLR1	-0.01	-0.11	0.16	-0.27	-0.03	-0.28	0.10	0.33	0.10	0.41	0.68
RADLR2	-0.18	0.38	-0.10	-0.24	-0.41	0.29	0.06	0.22	0.01	-0.01	0.76
RADLR3	-0.10	0.12	0.14	0.35	-0.31	0.23	-0.03	0.03	0.30	-0.29	0.81
RADLR4	-0.20	-0.30	0.20	0.21	0.14	-0.11	0.29	0.15	-0.10	-0.20	0.69
RADLR5	0.01	0.01	0.14	0.41	0.05	-0.09	0.02	0.10	-0.09	-0.01	0.77
RADLL1	0.07	0.33	0.00	-0.37	0.21	0.25	-0.11	0.40	-0.07	0.01	0.87
RADLL2	-0.39	0.12	-0.01	-0.39	-0.29	0.12	-0.05	-0.26	0.20	-0.38	0.84
RADLL3	-0.14	0.13	0.11	-0.41	-0.21	0.20	-0.23	-0.21	-0.37	-0.14	0.79
RADLL4	-0.04	0.01	0.36	0.39	0.08	0.15	0.24	-0.02	0.14	-0.35	0.85
RADLL5	-0.14	-0.10	0.35	0.50	-0.14	0.07	0.00	0.17	-0.03	-0.10	0.83
WHORLR1	0.54	0.17	-0.40	0.40	-0.20	-0.16	-0.10	0.19	-0.01	0.04	0.90
WHORLR2	0.57	0.12	0.04	0.01	-0.02	-0.05	-0.11	0.16	-0.44	-0.33	0.92
WHORLR3	0.65	0.09	0.17	0.03	-0.44	0.00	0.07	0.24	0.12	-0.07	0.88
WHORLR4	0.72	-0.30	-0.07	0.04	-0.27	-0.25	0.02	-0.14	0.04	0.23	0.91
WHORLR5	0.54	-0.23	0.07	0.32	-0.09	0.13	-0.54	0.03	0.07	-0.04	0.85
WHORLL1	0.50	-0.03	-0.30	0.26	-0.18	-0.27	-0.01	-0.16	0.01	0.06	0.85
WHORLL2	0.75	0.16	-0.06	-0.11	0.00	-0.03	0.03	0.31	-0.19	-0.03	0.85
WHORLL3	0.70	-0.16	0.17	-0.13	-0.27	-0.26	0.08	-0.07	-0.06	-0.16	0.87
WHORLL4	0.44	-0.52	-0.07	-0.24	0.09	-0.36	0.35	0.13	-0.01	-0.01	0.91
WHORLL5	0.44	-0.26	0.09	-0.09	0.18	-0.19	-0.50	-0.12	0.30	-0.25	0.90
DLOOPR1	0.12	0.60	-0.25	-0.05	0.11	-0.12	0.20	-0.37	0.00	-0.01	0.86
DLOOPR2	0.28	0.30	0.00	-0.21	0.44	0.03	-0.05	0.06	0.14	0.16	0.81
DLOOPR3	0.20	0.34	0.38	-0.26	-0.07	-0.10	0.04	-0.61	0.19	-0.06	0.88
DLOOPR4	0.33	0.17	0.28	0.11	0.37	0.18	0.38	-0.01	0.15	0.03	0.87
DLOOPR5	0.29	0.26	-0.06	0.37	-0.18	0.22	-0.09	0.21	-0.02	0.04	0.72
DLOOPL1	0.26	0.57	-0.34	0.20	0.08	-0.20	-0.05	-0.18	-0.01	-0.12	0.82
DLOOPL2	0.43	0.22	0.21	-0.12	0.36	-0.05	-0.18	-0.50	-0.11	0.23	0.87
DLOOPL3	0.46	0.19	0.21	-0.13	0.37	0.00	0.07	-0.10	0.25	0.12	0.83
DLOOPL4	0.37	0.37	-0.11	0.07	0.60	0.16	-0.01	-0.03	0.04	-0.11	0.86
DLOOPL5	0.28	0.10	-0.01	0.14	0.38	0.11	0.18	-0.15	-0.17	0.53	0.92

TABLE 5.13 : (CONTINUED)

TRAIT	COM11	COM12	COM13	COM14	COM15	COM16	COM17	COM18
RFR1	-0.06	-0.09	-0.12	-0.21	0.17	0.23	0.02	0.06
RFU1	0.01	0.11	-0.04	-0.02	0.09	0.11	0.03	0.01
RFR2	0.01	-0.09	-0.13	-0.20	0.01	-0.06	0.06	0.06
RFU2	0.14	0.02	-0.06	0.11	-0.10	0.12	-0.02	0.02
RFR3	-0.19	0.03	0.10	0.02	-0.12	-0.17	0.06	0.03
RFU3	0.08	-0.08	0.08	0.00	-0.22	0.15	0.13	-0.04
RFR4	0.02	0.10	-0.11	0.00	-0.02	-0.07	0.14	0.23
RFU4	-0.17	0.12	0.01	0.14	-0.11	-0.05	0.06	-0.06
RFR5	0.05	0.15	-0.17	-0.03	0.04	0.08	0.03	0.03
RFU5	0.04	-0.01	0.18	-0.02	0.10	0.02	0.05	-0.01
LFR1	-0.23	-0.03	-0.16	-0.03	0.18	0.17	0.01	0.00
LFU1	0.07	0.11	0.11	0.08	0.11	0.08	0.00	0.15
LFR2	-0.12	-0.06	-0.22	0.01	0.00	-0.04	0.07	0.04
LFU2	0.17	0.01	0.07	0.04	-0.05	0.05	0.08	0.00
LFR3	-0.14	0.08	0.02	0.03	-0.04	0.03	0.00	0.05
LFU3	0.04	-0.08	-0.17	-0.13	0.12	-0.04	-0.10	0.06
LFR4	-0.21	0.12	-0.17	0.06	0.13	0.02	-0.01	0.00
LFU4	0.10	0.12	0.06	-0.12	0.13	0.04	0.12	-0.05
LFR5	0.03	0.08	-0.23	-0.04	0.15	0.12	0.16	-0.03
LFU5	-0.01	0.20	-0.08	-0.16	-0.08	0.01	-0.04	0.06
RD1	0.02	0.02	0.05	-0.22	-0.10	-0.06	-0.14	-0.05
RD2	0.31	-0.25	-0.03	0.15	-0.04	0.09	-0.13	-0.02
RD3	0.04	-0.12	0.17	0.16	-0.13	0.08	-0.07	-0.15
RD4	-0.27	0.16	0.19	0.06	-0.08	-0.11	0.13	-0.11
RD5	-0.08	-0.12	0.20	0.04	0.10	0.16	-0.06	-0.09
LD1	-0.01	-0.05	0.07	0.04	0.05	-0.07	-0.02	0.11
LD2	0.07	0.00	-0.02	0.09	-0.09	-0.10	-0.05	0.19
LD3	0.06	-0.10	-0.11	-0.01	0.03	-0.18	-0.10	0.02
LD4	-0.07	0.03	0.12	-0.01	0.13	0.06	0.04	-0.01
LD5	0.11	0.11	-0.07	-0.06	-0.04	-0.11	0.09	-0.10
ARCHR1	-0.15	0.20	-0.21	0.33	0.26	0.13	0.19	-0.01
ARCHR2	-0.20	0.32	-0.07	-0.08	-0.14	0.02	-0.05	-0.03
ARCHR3	-0.18	-0.13	-0.10	-0.23	-0.08	-0.01	-0.03	0.09
ARCHR4	0.13	-0.01	-0.12	0.10	0.05	-0.03	-0.26	0.18
ARCHR5	-0.07	0.14	-0.03	-0.05	0.19	-0.15	0.27	0.00
ARCHL1	0.10	0.18	-0.26	0.08	-0.02	0.02	0.22	-0.03
ARCHL2	0.03	0.03	0.02	-0.32	0.08	0.13	0.04	-0.21
ARCHL3	-0.10	-0.31	-0.06	-0.20	0.03	-0.05	-0.03	-0.10
ARCHL4	0.27	0.14	0.04	-0.18	-0.03	0.10	-0.27	0.01
ARCHL5	0.00	0.16	0.15	0.02	0.07	0.13	-0.16	0.16
ULOOPR1	0.07	-0.19	0.09	-0.04	-0.12	-0.05	0.04	0.06
ULOOPR2	0.00	-0.04	0.07	-0.10	0.05	-0.10	0.20	0.08
ULOOPR3	0.06	0.20	-0.13	0.04	0.18	-0.08	0.07	0.05
ULOOPR4	0.27	-0.17	-0.13	-0.16	0.08	0.11	0.02	0.03
ULOOPR5	0.15	0.04	-0.16	-0.02	-0.23	-0.06	-0.16	0.06
ULOOPL1	-0.04	-0.11	0.00	-0.08	-0.06	0.05	-0.14	-0.12
ULOOPL2	-0.16	-0.09	-0.14	0.20	-0.11	-0.10	-0.04	0.03
ULOOPL3	0.14	0.38	0.17	0.25	-0.05	0.34	0.06	0.09
ULOOPL4	-0.13	-0.09	-0.15	0.11	-0.13	-0.11	0.02	0.02
ULOOPL5	-0.15	-0.25	-0.06	0.00	0.00	0.06	0.02	-0.07
RADLR1	0.22	0.01	0.21	0.17	0.16	0.08	-0.16	0.12
RADLR2	-0.33	0.04	-0.02	0.02	0.30	-0.01	-0.05	-0.10
RADLR3	0.41	0.24	0.10	0.12	0.24	0.01	0.10	0.09
RADLR4	-0.32	-0.04	-0.08	0.26	-0.12	0.29	-0.11	-0.07
RADLR5	-0.24	-0.50	0.12	0.23	-0.03	0.26	0.25	0.23
RADLL1	-0.11	0.07	0.53	-0.14	0.05	0.06	-0.07	0.06
RADLL2	0.11	-0.01	0.22	0.06	0.26	0.14	0.05	-0.10
RADLL3	-0.25	0.06	0.22	-0.12	0.15	-0.17	0.22	-0.03
RADLL4	0.29	-0.17	-0.07	0.07	0.04	-0.07	0.44	-0.11
RADLL5	0.17	0.18	0.14	0.24	-0.06	-0.39	-0.04	0.27
WHORLR1	0.08	-0.14	-0.09	0.09	0.12	-0.10	-0.14	-0.25
WHORLR2	0.14	0.19	-0.17	0.16	-0.20	0.16	-0.18	-0.17
WHORLR3	0.10	-0.10	0.08	-0.09	-0.30	0.14	0.04	0.04
WHORLR4	-0.06	0.20	-0.05	0.04	-0.07	-0.03	0.01	-0.18
WHORLR5	-0.01	-0.10	-0.07	0.06	-0.02	0.19	-0.02	0.12
WHORLL1	0.08	0.01	-0.13	0.00	0.49	0.01	-0.20	0.07
WHORLL2	0.21	-0.03	-0.05	-0.08	-0.06	-0.22	0.02	0.08
WHORLL3	-0.06	-0.14	-0.15	-0.24	0.03	-0.04	-0.02	0.11
WHORLL4	0.05	-0.01	0.24	-0.18	0.03	0.10	0.04	0.00
WHORLL5	-0.18	0.09	-0.05	-0.14	0.04	0.06	-0.15	0.22
DLOOPR1	-0.15	0.23	0.09	-0.26	-0.18	0.08	0.06	0.16
DLOOPR2	0.21	-0.44	0.16	0.06	0.16	0.01	0.11	0.22
DLOOPR3	0.01	-0.17	0.02	0.14	0.01	0.03	-0.10	-0.15
DLOOPR4	-0.27	-0.01	0.33	0.21	0.13	-0.16	-0.20	0.07
DLOOPR5	0.00	-0.01	0.40	-0.13	0.03	-0.22	-0.02	-0.25
DLOOPL1	-0.03	-0.01	0.05	0.15	-0.27	-0.07	0.22	0.14
DLOOPL2	-0.18	-0.14	0.02	0.18	-0.04	0.14	0.02	0.03
DLOOPL3	0.15	-0.22	-0.09	0.27	0.15	-0.27	-0.06	-0.20
DLOOPL4	-0.07	0.09	-0.01	0.33	0.01	-0.11	-0.08	-0.18
DLOOPL5	0.33	0.07	0.11	-0.03	-0.13	0.17	0.19	-0.27

TABLE 5.14 : PRINCIPAL COMPONENTS ANALYSIS (VARIMAX ROTATED SOLUTION)-
BASED ON 80 DIGITAL TRAITS- (MALES)

TRAIT	COM1	COM2	COM3	COM4	COM5	COM6	COM7	COM8	COM9	COM10
RFR1	0.31	0.14	0.37	0.26	0.70	0.11	0.10	-0.08	0.01	0.10
RFU1	0.07	0.89	0.31	-0.04	-0.05	0.01	0.07	0.01	0.06	0.09
RFR2	0.32	-0.16	0.45	0.32	0.39	0.01	-0.06	0.45	0.09	0.21
RFU2	0.11	0.25	0.53	0.08	0.04	0.26	0.17	-0.07	-0.12	0.09
RFR3	0.30	-0.01	0.76	0.27	0.15	0.15	0.00	0.05	0.02	0.04
RFU3	0.42	0.19	0.40	0.07	-0.11	0.22	0.13	0.13	0.26	0.23
RFR4	0.03	0.27	0.85	0.17	0.08	0.09	0.07	-0.12	0.00	-0.03
RFU4	0.65	0.13	0.45	0.10	0.10	0.00	0.26	0.00	0.00	0.05
RFR5	0.14	0.23	0.79	0.06	0.14	0.02	0.18	-0.01	0.06	0.02
RFU5	0.61	0.03	0.16	-0.01	0.20	-0.01	-0.02	0.09	0.13	0.09
LFR1	0.37	0.09	0.42	0.16	0.69	0.03	0.02	0.06	0.01	0.08
LFU1	0.05	0.91	0.01	-0.02	0.11	0.02	0.00	-0.02	-0.03	0.17
LFR2	0.29	-0.05	0.59	0.13	0.29	-0.08	-0.09	0.36	0.05	0.05
LFU2	0.20	0.15	0.34	0.02	0.07	0.16	0.01	-0.05	0.03	0.03
LFR3	0.26	0.02	0.82	0.12	0.12	0.01	-0.12	0.24	0.00	-0.04
LFU3	0.50	0.08	0.16	0.17	0.19	-0.02	0.23	0.17	0.24	0.03
LFR4	0.17	0.10	0.88	0.02	0.09	0.06	0.10	0.04	0.05	0.00
LFU4	0.82	0.07	0.38	0.16	0.02	-0.04	0.00	0.03	0.06	-0.02
LFR5	0.31	0.17	0.79	0.14	0.08	-0.06	0.16	0.06	0.16	0.02
LFU5	0.80	0.18	0.01	-0.13	0.22	0.03	-0.16	0.03	-0.20	0.17
RD1	0.16	0.77	0.34	0.09	0.20	0.01	0.10	0.02	0.16	-0.06
RD2	0.17	0.07	0.44	0.38	0.11	0.28	0.13	0.20	-0.06	-0.06
RD3	0.34	0.13	0.46	0.36	-0.03	0.20	0.18	0.06	0.26	-0.01
RD4	0.47	0.03	0.53	0.02	0.11	0.10	0.41	0.05	-0.08	-0.05
RD5	0.70	0.04	0.22	0.08	0.10	0.07	-0.02	0.01	0.04	-0.06
LD1	0.12	0.86	0.02	0.01	0.39	0.07	-0.03	-0.08	0.00	-0.02
LD2	0.26	0.22	0.36	0.38	0.22	-0.09	0.05	0.10	0.02	-0.07
LD3	0.39	0.15	0.28	0.33	0.30	-0.01	0.22	0.09	0.25	-0.06
LD4	0.78	0.01	0.35	0.26	0.10	0.04	0.07	-0.01	-0.02	-0.10
LD5	0.77	0.14	0.10	-0.07	0.13	0.01	-0.07	-0.09	0.02	0.28
ARCHR1	-0.22	0.18	-0.28	-0.35	-0.54	0.04	-0.02	0.07	0.00	-0.09
ARCHR2	-0.08	0.06	-0.26	-0.83	-0.17	0.03	0.06	-0.09	0.05	-0.02
ARCHR3	-0.15	0.08	-0.17	-0.72	-0.15	-0.14	-0.19	0.04	-0.04	-0.04
ARCHR4	0.00	-0.04	-0.30	-0.23	-0.13	-0.30	-0.13	0.00	0.11	0.09
ARCHR5	-0.10	-0.09	-0.14	-0.27	-0.18	-0.09	0.18	-0.11	-0.08	-0.09
ARCHL1	-0.15	0.03	-0.06	-0.13	-0.88	-0.03	-0.01	-0.01	-0.02	0.05
ARCHL2	-0.05	0.07	-0.23	-0.84	-0.12	0.04	-0.05	0.14	0.00	0.17
ARCHL3	0.00	-0.05	-0.31	-0.39	-0.39	-0.05	-0.03	0.16	-0.22	0.02
ARCHL4	0.12	-0.07	-0.40	-0.35	-0.26	-0.05	0.14	0.18	0.13	0.01
ARCHL5	-0.05	-0.13	-0.27	-0.23	0.01	0.01	0.03	0.01	-0.23	-0.09
ULOPR1	-0.01	-0.89	-0.15	0.10	0.19	-0.03	-0.08	-0.07	-0.15	0.06
ULOPR2	-0.06	-0.28	-0.30	0.28	0.00	-0.23	-0.13	0.26	0.08	0.04
ULOPR3	-0.26	-0.23	-0.33	0.24	0.16	-0.09	-0.08	-0.08	-0.22	-0.04
ULOPR4	-0.52	-0.02	-0.40	0.09	-0.07	0.03	-0.37	-0.05	0.03	0.02
ULOPR5	-0.64	-0.01	-0.13	0.07	-0.01	-0.01	-0.09	0.06	0.01	0.12
ULOPL1	0.00	-0.92	0.03	0.05	0.19	-0.03	0.02	0.04	0.01	-0.04
ULOPL2	-0.14	-0.36	0.04	0.23	0.14	-0.07	0.02	0.10	0.05	-0.13
ULOPL3	-0.48	-0.12	0.11	0.21	0.04	0.00	-0.27	-0.07	-0.11	-0.01
ULOPL4	-0.84	0.04	-0.13	-0.10	0.02	-0.01	0.01	-0.07	-0.04	0.09
ULOPL5	-0.79	-0.04	0.11	0.24	-0.10	-0.02	0.13	0.08	0.22	-0.22
RADLR1	-0.10	0.39	-0.02	0.35	-0.41	-0.04	0.01	0.07	0.00	0.57
RADLR2	-0.13	0.24	0.03	0.04	-0.03	-0.23	-0.12	-0.77	-0.09	0.09
RADLR3	0.03	0.07	-0.26	-0.06	0.08	-0.07	0.05	-0.18	-0.20	0.41
RADLR4	0.11	0.07	-0.19	0.01	0.12	0.13	0.00	0.01	0.00	-0.10
RADLR5	0.04	0.15	-0.03	0.04	0.04	-0.12	0.08	-0.08	-0.02	-0.03
RADLL1	-0.17	0.23	-0.08	0.23	-0.04	-0.15	0.18	0.47	0.00	0.28
RADLL2	-0.06	0.08	-0.32	0.19	-0.39	0.18	-0.06	-0.50	-0.10	0.08
RADLL3	0.05	-0.12	-0.23	0.14	0.19	0.09	0.07	-0.69	0.20	0.16
RADLL4	-0.02	-0.06	-0.22	-0.03	-0.02	-0.04	-0.83	-0.06	-0.07	0.02
RADLL5	0.19	-0.14	-0.21	-0.20	-0.21	0.01	-0.48	0.09	-0.58	-0.05
WHORLR1	0.19	0.66	0.25	0.13	0.05	-0.08	0.11	0.06	-0.36	0.02
WHORLR2	0.16	0.09	0.16	0.04	0.12	-0.25	-0.06	0.13	-0.20	-0.06
WHORLR3	0.43	0.14	0.36	0.12	-0.01	0.20	0.05	0.16	0.38	0.03
WHORLR4	0.69	0.14	0.27	0.16	0.01	-0.14	0.07	0.11	0.02	-0.03
WHORLR5	0.59	-0.04	0.01	0.03	0.26	0.03	0.00	0.08	0.13	0.16
WHORLL1	0.03	0.47	0.05	-0.09	0.35	-0.36	0.13	0.07	-0.29	-0.08
WHORLL2	0.49	-0.07	0.08	-0.04	0.19	-0.19	-0.08	0.19	0.02	-0.10
WHORLL3	0.55	0.15	0.25	0.13	0.03	-0.09	0.19	0.22	0.28	-0.14
WHORLL4	0.81	-0.11	0.24	0.14	0.02	-0.30	0.19	0.00	0.04	-0.10
WHORLL5	0.84	0.06	0.02	0.04	0.18	0.02	-0.12	-0.04	-0.10	-0.05
DLOPR1	-0.08	0.44	0.13	-0.14	-0.01	0.14	-0.01	-0.04	0.61	-0.10
DLOPR2	-0.06	0.06	0.25	0.03	0.05	0.71	0.16	0.12	0.06	0.03
DLOPR3	-0.13	0.15	0.33	0.03	-0.10	0.12	0.00	-0.09	-0.03	-0.07
DLOPR4	-0.17	0.03	0.21	-0.49	0.18	0.61	0.22	-0.10	-0.03	0.04
DLOPR5	0.03	0.26	0.11	-0.09	0.06	-0.07	0.09	0.01	0.06	0.13
DLOPL1	0.08	0.71	-0.05	0.00	-0.15	0.37	-0.16	-0.18	0.21	0.00
DLOPL2	-0.18	0.42	0.25	0.03	-0.04	0.35	0.14	-0.02	-0.02	0.21
DLOPL3	-0.03	0.03	0.01	-0.18	0.10	0.19	-0.03	0.11	-0.03	0.04
DLOPL4	-0.05	0.27	-0.03	0.13	0.00	0.66	-0.25	-0.02	0.06	0.06
DLOPL5	0.13	0.07	0.12	-0.31	0.18	0.16	-0.05	-0.18	0.01	0.69

TABLE 5.14 : (CONTINUED)

TRAIT	COM11	COM12	COM13	COM14	COM15	COM16	COM17	COM18
RFR1	0.03	0.04	0.01	-0.01	-0.07	-0.07	0.12	-0.02
RFU1	0.14	0.00	0.07	-0.06	0.01	0.03	-0.06	0.03
RFR2	-0.02	0.07	0.10	0.12	0.06	0.02	0.08	0.00
RFU2	0.08	0.27	0.60	-0.01	0.08	0.00	0.02	-0.02
RFR3	-0.06	0.06	0.10	-0.08	0.12	-0.12	0.07	-0.18
RFU3	0.05	0.07	0.44	0.08	0.04	0.05	0.29	0.10
RFR4	-0.03	0.06	0.06	-0.17	0.01	-0.02	0.01	-0.06
RFU4	-0.07	0.00	0.37	-0.02	0.11	0.08	-0.08	0.02
RFR5	-0.08	0.11	0.07	-0.19	0.08	0.11	0.13	-0.05
RFU5	0.06	-0.03	0.10	0.04	0.24	0.59	0.04	-0.13
LFR1	0.12	0.03	0.03	0.08	0.01	0.07	0.10	-0.04
LFU1	0.14	0.05	0.06	0.03	0.03	-0.08	0.12	0.03
LFR2	0.08	0.03	0.37	-0.02	0.05	0.07	0.04	-0.18
LFU2	-0.07	0.77	0.22	0.16	0.00	-0.04	0.19	0.07
LFR3	0.07	0.08	0.23	-0.02	0.02	-0.05	0.06	-0.04
LFU3	0.14	0.06	0.32	0.02	0.03	-0.05	0.52	-0.14
LFR4	0.03	0.00	0.19	-0.11	0.04	0.02	0.08	0.03
LFU4	-0.12	0.01	0.00	0.09	0.03	-0.20	0.11	0.05
LFR5	0.01	0.04	0.02	-0.05	0.07	0.19	0.02	0.01
LFU5	0.13	0.12	0.05	-0.03	-0.12	0.17	-0.02	-0.09
RD1	0.08	0.02	0.03	-0.19	0.10	0.13	0.04	0.11
RD2	-0.02	0.13	0.53	-0.08	-0.04	0.05	0.00	0.11
RD3	-0.09	0.10	0.28	-0.15	0.16	0.10	0.32	0.10
RD4	-0.20	0.04	0.31	-0.23	0.06	0.07	-0.13	0.02
RD5	-0.01	-0.01	0.07	-0.27	0.46	0.31	-0.08	0.07
LD1	0.00	0.10	0.11	-0.07	0.06	0.04	0.06	0.02
LD2	-0.01	0.56	0.26	-0.08	-0.05	0.22	0.08	-0.05
LD3	0.02	0.19	0.21	-0.16	0.03	-0.08	0.51	-0.01
LD4	-0.11	0.00	0.08	-0.17	-0.06	-0.15	0.11	0.09
LD5	0.27	0.05	-0.06	-0.28	0.04	0.24	0.04	0.01
ARCHR1	-0.14	0.07	0.01	0.25	-0.03	-0.12	-0.14	-0.24
ARCHR2	-0.13	-0.10	-0.01	0.11	0.07	0.11	0.14	-0.11
ARCHR3	0.26	0.11	0.16	0.34	0.07	0.02	-0.03	0.14
ARCHR4	0.26	0.05	0.22	0.62	-0.05	-0.06	-0.17	0.22
ARCHR5	0.15	0.14	-0.05	0.72	0.01	0.23	-0.04	-0.07
ARCHL1	0.05	-0.03	-0.07	0.22	-0.05	-0.10	0.11	-0.09
ARCHL2	-0.12	0.12	-0.08	0.08	0.06	-0.12	0.06	0.06
ARCHL3	0.25	-0.08	0.01	0.31	-0.03	0.13	-0.06	-0.10
ARCHL4	-0.22	0.16	0.02	0.49	0.14	-0.02	0.13	0.17
ARCHL5	-0.24	0.10	0.06	0.69	-0.13	-0.22	0.01	-0.25
ULOOPR1	0.03	-0.07	-0.04	0.05	-0.07	-0.06	0.06	0.05
ULOOPR2	0.00	-0.12	-0.69	0.02	-0.06	-0.10	-0.09	0.03
ULOOPR3	-0.10	-0.18	-0.46	-0.16	-0.03	-0.14	-0.32	-0.25
ULOOPR4	0.09	-0.07	-0.44	-0.05	-0.03	-0.05	0.23	-0.21
ULOOPR5	-0.18	-0.07	-0.04	-0.15	-0.46	-0.44	0.11	-0.02
ULOOPL1	0.00	-0.10	-0.07	-0.06	-0.06	0.06	-0.14	0.05
ULOOPL2	-0.02	-0.78	-0.08	-0.22	0.02	0.00	-0.09	-0.05
ULOOPL3	-0.26	-0.11	-0.26	-0.13	-0.01	-0.09	-0.52	0.13
ULOOPL4	0.24	-0.08	-0.06	-0.04	0.01	0.16	-0.16	-0.19
ULOOPL5	-0.11	-0.11	0.01	-0.18	0.05	-0.10	-0.03	0.17
RADLR1	-0.18	0.06	-0.03	-0.17	0.01	0.04	-0.12	-0.01
RADLR2	0.26	0.10	0.01	-0.01	0.06	-0.13	-0.08	-0.15
RADLR3	-0.19	-0.27	-0.06	0.11	-0.52	0.02	-0.17	0.07
RADLR4	-0.05	0.04	-0.02	-0.04	0.00	-0.07	-0.02	0.78
RADLR5	0.87	-0.02	-0.03	0.04	0.01	0.00	-0.10	-0.05
RADLL1	-0.23	0.20	0.06	-0.15	0.27	-0.29	0.07	-0.07
RADLL2	0.12	0.10	-0.18	0.38	-0.02	-0.24	-0.07	0.04
RADLL3	-0.21	-0.04	-0.06	-0.03	-0.06	0.08	-0.05	0.09
RADLL4	-0.11	0.05	-0.15	-0.12	-0.07	0.01	-0.11	0.02
RADLL5	-0.04	-0.09	0.12	0.11	-0.03	-0.02	-0.08	-0.09
WHORLR1	0.18	0.15	0.23	0.04	-0.11	-0.06	-0.03	0.15
WHORLR2	-0.12	0.21	0.75	0.13	0.02	-0.03	-0.02	-0.13
WHORLR3	0.16	0.03	0.48	0.05	0.24	0.03	-0.04	0.03
WHORLR4	-0.07	-0.04	0.50	-0.06	0.09	0.08	-0.04	0.06
WHORLR5	-0.05	0.08	0.20	-0.08	-0.12	0.58	0.12	-0.11
WHORLL1	0.41	0.12	0.01	-0.02	0.10	0.12	0.16	0.03
WHORLL2	0.09	0.59	0.36	-0.04	-0.23	0.01	-0.06	-0.03
WHORLL3	0.11	0.04	0.39	-0.04	0.12	-0.04	0.23	-0.05
WHORLL4	-0.09	0.06	0.04	0.00	0.00	-0.15	-0.03	0.06
WHORLL5	0.16	0.14	0.01	0.01	-0.13	0.11	-0.06	0.04
DLOOPR1	-0.19	-0.09	-0.23	-0.15	0.22	0.20	0.05	-0.06
DLOOPR2	-0.11	0.02	0.19	-0.08	-0.04	0.24	0.18	0.17
DLOOPR3	-0.17	0.09	-0.04	-0.06	-0.05	0.16	0.68	0.36
DLOOPR4	0.00	0.24	-0.15	-0.05	-0.04	-0.03	0.01	0.00
DLOOPR5	-0.04	-0.16	0.08	-0.02	0.82	0.01	-0.09	0.01
DLOOPL1	-0.29	0.02	0.06	0.04	-0.02	-0.09	0.01	0.00
DLOOPL2	-0.12	0.09	-0.11	0.00	0.24	0.32	0.36	0.07
DLOOPL3	-0.09	0.06	-0.06	-0.04	-0.07	-0.06	0.81	-0.13
DLOOPL4	-0.12	-0.03	0.02	-0.13	0.01	-0.23	0.27	0.07
DLOOPL5	0.06	0.08	-0.02	-0.03	0.08	0.06	0.10	-0.18

TABLE 5.15 : PRINCIPAL COMPONENTS ANALYSIS (VARIMAX ROTATED SOLUTION) : -
BASED ON 80 DIGITAL TRAITS (FEMALES).

TRAIT	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10
RFR1	0.14	0.02	0.45	0.32	0.61	0.18	0.07	0.15	0.09	-0.13
RFU1	0.83	0.12	0.31	0.06	0.06	0.01	-0.11	0.14	0.07	0.04
RFR2	0.07	0.19	0.34	0.47	0.38	0.23	0.03	0.22	0.08	0.29
RFU2	0.21	0.25	0.50	0.10	0.02	0.13	-0.03	0.72	0.00	0.03
RFR3	0.07	0.24	0.47	0.17	0.34	0.09	-0.10	0.38	-0.06	0.17
RFU3	0.23	0.83	0.34	0.05	-0.01	0.16	0.06	0.07	0.10	-0.05
RFR4	0.28	0.22	0.71	-0.06	-0.03	0.02	-0.17	0.23	-0.01	0.06
RFU4	0.10	0.48	0.37	0.38	-0.04	0.47	0.01	0.12	-0.09	0.26
RFR5	0.09	0.23	0.85	0.00	0.13	0.16	-0.03	0.13	0.02	-0.02
RFU5	0.03	0.25	0.14	0.12	0.05	0.79	0.05	0.21	0.08	0.10
LFR1	0.23	-0.08	0.42	0.26	0.62	0.17	0.05	0.02	-0.01	-0.06
LFU1	0.90	0.06	0.17	0.05	0.09	0.01	-0.01	0.17	0.08	-0.05
LFR2	0.10	0.17	0.53	0.30	0.27	0.23	0.08	0.26	-0.04	0.37
LFU2	0.21	0.34	0.24	0.15	-0.11	0.20	0.07	0.65	-0.05	-0.10
LFR3	0.10	0.44	0.57	0.29	0.25	0.20	0.12	0.23	0.05	0.06
LFU3	0.03	0.44	0.44	0.35	-0.09	0.28	0.19	0.29	-0.19	0.03
LFR4	0.16	0.26	0.77	0.14	-0.03	0.14	-0.08	0.19	-0.16	-0.03
LFU4	0.02	0.10	0.15	0.90	0.01	0.16	-0.15	0.14	0.08	0.00
LFR5	0.11	0.17	0.82	0.16	0.13	0.21	-0.03	0.13	0.04	0.00
LFU5	-0.10	0.02	0.25	0.36	0.14	0.69	-0.04	0.12	-0.07	0.09
RD1	0.77	0.22	0.09	0.04	0.45	0.09	-0.07	0.06	-0.09	0.07
RD2	0.17	0.14	0.19	0.25	0.14	0.18	-0.08	0.71	-0.12	0.00
RD3	0.12	0.75	0.17	0.13	0.13	0.17	-0.02	0.20	0.05	-0.16
RD4	0.22	0.38	0.23	0.47	0.02	0.41	-0.16	-0.01	-0.17	0.25
RD5	0.10	0.17	0.05	0.05	0.10	0.82	-0.16	0.09	-0.08	-0.02
LD1	0.83	0.04	0.04	0.07	0.38	0.08	-0.10	0.07	-0.02	0.06
LD2	0.27	0.12	0.25	0.31	0.07	0.26	-0.03	0.49	-0.29	0.18
LD3	0.00	0.45	0.23	0.50	0.05	0.17	-0.02	0.23	-0.12	0.07
LD4	0.08	-0.01	0.08	0.86	0.06	0.15	-0.29	0.10	-0.11	0.00
LD5	-0.03	-0.10	0.18	0.30	0.17	0.60	-0.41	0.12	0.03	0.04
ARCHR1	-0.05	-0.26	0.01	-0.12	-0.72	-0.23	0.10	0.11	0.01	-0.17
ARCHR2	0.10	-0.10	-0.06	-0.16	-0.12	0.02	0.06	0.03	0.20	0.03
ARCHR3	-0.03	-0.01	0.00	-0.13	-0.23	-0.19	0.16	-0.10	-0.15	0.14
ARCHR4	-0.23	0.15	-0.05	-0.24	-0.07	-0.12	0.63	0.06	0.30	-0.05
ARCHR5	-0.03	0.04	0.05	0.04	-0.14	-0.01	0.53	0.02	0.14	0.09
ARCHL1	-0.14	0.12	-0.07	-0.06	-0.81	-0.03	0.10	0.01	0.05	-0.04
ARCHL2	-0.02	-0.03	-0.15	-0.08	-0.12	-0.03	0.22	-0.06	0.15	-0.17
ARCHL3	0.15	-0.07	-0.16	-0.30	-0.01	-0.02	0.11	-0.01	-0.04	0.09
ARCHL4	-0.17	0.05	-0.01	-0.26	0.16	-0.07	0.80	0.10	0.12	0.01
ARCHL5	-0.08	0.10	-0.09	0.01	-0.19	0.04	0.81	-0.10	0.01	0.04
ULOOPR1	-0.88	-0.06	-0.12	0.02	0.13	0.09	-0.03	-0.15	0.12	0.05
ULOOPR2	-0.28	-0.10	-0.25	0.04	0.01	-0.05	0.01	-0.72	-0.02	0.08
ULOOPR3	-0.14	-0.81	-0.18	-0.02	0.09	-0.02	-0.16	-0.11	-0.07	0.07
ULOOPR4	-0.07	-0.50	-0.20	-0.41	0.03	-0.38	-0.20	-0.02	0.02	-0.25
ULOOPR5	-0.07	-0.19	-0.07	-0.08	0.01	-0.74	-0.25	-0.09	-0.03	-0.06
ULOOPL1	-0.89	-0.14	-0.02	-0.04	0.22	-0.05	0.06	-0.14	0.00	-0.02
ULOOPL2	-0.31	-0.16	-0.09	-0.22	0.07	-0.16	-0.16	-0.47	0.08	0.34
ULOOPL3	-0.12	-0.41	-0.08	-0.15	-0.05	-0.10	-0.05	-0.29	0.24	-0.14
ULOOPL4	0.04	-0.04	-0.08	-0.87	-0.19	-0.12	-0.14	-0.17	-0.08	-0.03
ULOOPL5	0.11	0.02	-0.08	-0.29	-0.01	-0.67	-0.29	-0.04	-0.14	-0.17
RADLR1	-0.09	0.08	0.02	0.22	-0.54	-0.02	0.19	-0.08	-0.11	0.04
RADLR2	0.08	0.03	0.32	-0.34	-0.09	-0.35	-0.03	-0.06	-0.02	-0.18
RADLR3	0.09	0.05	0.05	-0.14	-0.01	0.06	0.17	-0.08	0.83	-0.12
RADLR4	-0.28	-0.07	-0.20	0.22	0.00	-0.10	0.10	0.02	-0.05	0.02
RADLR5	0.04	0.07	-0.12	-0.02	0.07	0.13	0.05	-0.06	0.04	0.09
RADLL1	-0.01	-0.06	0.14	0.02	-0.04	-0.06	-0.08	0.21	-0.10	-0.07
RADLL2	-0.15	0.09	-0.17	-0.22	-0.10	-0.25	-0.08	-0.09	0.29	-0.65
RADLL3	-0.16	-0.03	-0.01	-0.24	-0.02	-0.03	0.02	0.08	-0.11	-0.19
RADLL4	-0.15	0.10	-0.04	0.13	0.13	-0.08	0.01	0.02	0.69	0.04
RADLL5	-0.10	-0.01	-0.18	-0.10	-0.05	0.14	0.36	-0.06	0.54	0.54
WHORLR1	0.60	0.14	0.06	0.02	0.18	0.24	-0.19	0.18	0.03	0.18
WHORLR2	0.21	0.10	0.07	0.14	0.04	0.20	0.04	0.83	-0.01	0.05
WHORLR3	0.18	0.72	0.27	0.15	0.06	0.16	0.00	0.30	0.11	0.13
WHORLR4	0.26	0.41	0.23	0.33	-0.02	0.39	-0.02	-0.01	-0.19	0.13
WHORLR5	0.03	0.14	0.23	-0.06	0.20	0.78	-0.07	0.18	0.09	0.04
WHORLL1	0.57	-0.03	0.13	0.25	0.12	0.30	0.14	-0.05	-0.02	-0.11
WHORLL2	0.32	0.21	0.32	0.30	0.03	0.11	-0.10	0.53	-0.01	0.33
WHORLL3	0.13	0.48	0.20	0.44	0.09	0.25	0.06	0.23	-0.18	0.03
WHORLL4	-0.04	0.20	-0.03	0.85	-0.02	0.05	-0.09	0.00	-0.19	0.01
WHORLL5	0.01	0.07	0.08	0.25	0.03	0.69	-0.20	0.05	-0.13	-0.15
DLOOPR1	0.61	0.05	0.05	-0.03	0.16	-0.26	0.09	-0.02	-0.20	-0.16
DLOOPR2	0.14	-0.02	0.18	0.09	-0.04	0.02	-0.14	0.13	-0.05	-0.10
DLOOPR3	0.06	0.49	-0.01	-0.13	-0.05	-0.01	0.22	0.08	-0.08	-0.46
DLOOPR4	0.06	0.11	0.20	0.28	0.18	-0.05	0.26	-0.05	0.03	0.12
DLOOPR5	0.28	0.22	0.03	-0.11	0.31	0.17	0.00	0.03	0.22	0.24
DLOOPL1	0.72	0.09	-0.09	-0.18	0.07	-0.04	-0.19	0.16	0.04	0.10
DLOOPL2	0.15	0.09	0.15	-0.05	0.02	0.32	0.15	0.16	-0.39	-0.21
DLOOPL3	0.06	0.17	0.24	0.16	-0.07	0.07	-0.08	0.16	0.01	0.00
DLOOPL4	0.30	-0.21	0.17	0.04	0.13	0.06	-0.18	0.33	0.03	0.02
DLOOPL5	0.13	-0.06	0.18	0.12	0.09	0.03	0.16	0.08	-0.10	0.04

TABLE 5.15 (CONTINUED).

TRAIT	COM11	COM12	COM13	COM14	COM15	COM16	COM17	COM18
RFR1	0.03	-0.12	-0.01	0.03	0.00	0.01	0.17	0.01
RFU1	-0.12	0.10	-0.03	0.15	-0.05	-0.14	0.04	0.04
RFR2	0.04	-0.15	0.02	0.12	-0.09	0.04	0.11	-0.02
RFU2	0.04	0.17	0.10	-0.02	0.10	0.02	0.02	0.05
RFR3	0.19	0.21	-0.02	-0.12	0.24	0.28	-0.01	-0.03
RFU3	0.07	-0.04	0.03	-0.03	-0.06	-0.02	0.04	0.12
RFR4	0.12	0.16	0.24	-0.16	0.05	0.05	-0.13	-0.06
RFU4	0.21	-0.06	-0.19	0.05	0.15	0.05	0.05	0.06
RFR5	0.10	0.08	0.08	-0.02	0.09	-0.10	-0.17	0.13
RFU5	0.14	0.09	0.06	0.18	-0.09	0.14	0.04	0.02
LFR1	0.13	-0.19	-0.18	0.05	0.16	0.01	0.23	0.04
LFU1	0.04	0.14	0.08	-0.02	0.08	-0.07	0.04	0.01
LFR2	0.09	-0.15	-0.07	0.17	0.03	0.06	0.22	0.06
LFU2	0.06	0.09	0.19	-0.09	0.10	0.28	-0.05	0.08
LFR3	0.11	0.06	-0.09	-0.08	0.23	0.08	0.04	-0.03
LFU3	0.02	-0.15	0.22	0.12	0.07	0.10	-0.12	-0.13
LFR4	0.04	0.09	-0.01	0.04	0.24	0.05	-0.09	-0.08
LFU4	0.04	-0.04	0.01	-0.03	0.10	-0.03	-0.05	0.03
LFR5	0.06	-0.04	0.06	0.10	0.06	-0.02	-0.01	0.19
LFU5	-0.09	-0.11	0.01	-0.27	0.19	-0.07	-0.18	0.05
RD1	0.02	-0.02	0.02	0.04	0.00	-0.09	-0.16	0.09
RD2	0.26	-0.01	0.28	0.13	0.13	-0.09	0.06	0.12
RD3	0.37	-0.01	-0.06	0.07	0.11	0.02	-0.02	-0.04
RD4	0.27	0.08	-0.21	0.03	0.13	0.15	0.00	0.08
RD5	0.15	0.14	0.01	0.26	-0.06	-0.07	0.12	0.01
LD1	0.21	-0.05	0.07	0.02	0.11	-0.02	0.07	0.00
LD2	0.40	-0.03	0.20	-0.11	0.12	0.10	-0.04	0.02
LD3	0.34	-0.24	0.13	0.09	0.11	0.07	-0.16	-0.20
LD4	0.18	0.05	-0.02	-0.01	0.15	-0.09	0.07	-0.05
LD5	0.02	-0.11	0.10	-0.18	0.27	-0.08	-0.24	0.15
ARCHR1	-0.21	-0.02	-0.20	0.04	0.04	0.21	0.19	-0.14
ARCHR2	-0.73	0.11	-0.31	-0.26	0.16	-0.05	-0.06	-0.13
ARCHR3	-0.77	0.09	0.14	-0.07	0.05	-0.06	0.12	-0.05
ARCHR4	-0.30	-0.16	0.03	-0.09	0.21	-0.04	0.02	-0.23
ARCHR5	-0.20	-0.17	-0.07	0.01	0.05	0.58	0.10	0.08
ARCHL1	-0.34	-0.23	-0.02	-0.09	-0.10	0.10	-0.07	-0.02
ARCHL2	-0.82	0.05	-0.01	0.02	0.01	0.06	-0.03	0.13
ARCHL3	-0.78	0.01	0.18	0.17	0.10	0.03	0.19	0.05
ARCHL4	-0.17	-0.01	-0.02	0.03	-0.10	0.02	-0.13	0.23
ARCHL5	-0.15	0.02	-0.09	-0.03	0.03	0.06	0.13	0.08
ULOPR1	0.13	0.00	0.10	-0.12	-0.03	-0.02	0.05	0.00
ULOPR2	0.36	-0.20	0.03	0.02	-0.27	0.01	0.01	0.12
ULOPR3	0.35	-0.10	-0.06	0.00	-0.14	0.04	-0.08	0.10
ULOPR4	-0.11	0.02	0.29	0.02	-0.28	-0.12	-0.07	0.06
ULOPR5	0.01	0.00	0.04	-0.24	0.02	-0.36	-0.25	-0.07
ULOPL1	0.07	0.04	-0.11	0.06	-0.06	-0.08	-0.01	0.02
ULOPL2	0.21	-0.09	-0.25	0.19	-0.17	-0.32	0.20	-0.09
ULOPL3	0.37	0.22	-0.29	-0.20	-0.21	-0.36	0.04	0.22
ULOPL4	-0.05	0.00	0.02	0.00	-0.13	0.07	-0.04	-0.12
ULOPL5	0.12	0.10	-0.03	0.22	-0.31	0.04	0.11	-0.20
RADLR1	0.12	0.26	0.23	0.19	0.00	-0.30	-0.01	0.06
RADLR2	-0.05	0.30	-0.16	0.33	-0.09	0.21	-0.01	-0.31
RADLR3	0.00	0.04	-0.03	0.04	-0.09	-0.09	-0.08	-0.10
RADLR4	-0.08	-0.09	-0.48	0.01	0.08	-0.19	0.45	-0.09
RADLR5	-0.12	-0.02	0.08	0.01	0.02	-0.01	0.83	0.01
RADLL1	-0.19	0.84	0.15	-0.04	0.05	0.10	-0.05	-0.01
RADLL2	0.14	0.15	0.04	-0.02	-0.03	0.18	-0.13	-0.21
RADLL3	0.12	0.24	0.02	-0.06	-0.07	0.74	-0.10	-0.12
RADLL4	-0.26	-0.31	0.05	-0.01	0.12	0.14	0.26	0.17
RADLL5	0.02	0.04	-0.06	-0.02	0.08	-0.03	0.05	-0.15
WHQRLR1	0.07	-0.10	-0.03	0.52	0.00	-0.16	0.01	0.03
WHQRLR2	0.08	-0.06	-0.29	0.04	-0.02	-0.01	-0.04	0.02
WHQRLR3	0.02	0.09	0.01	0.01	-0.24	-0.09	0.09	-0.01
WHQRLR4	0.38	-0.20	-0.21	0.12	0.00	0.02	-0.16	0.15
WHQRLR5	0.09	-0.08	0.01	0.03	-0.08	-0.15	0.19	-0.07
WHQRL1	0.27	-0.24	0.10	0.36	-0.01	-0.09	-0.07	-0.17
WHQRL2	0.06	0.06	0.25	0.10	-0.01	0.08	-0.11	0.00
WHQRL3	0.11	-0.26	0.12	0.04	-0.14	0.18	-0.03	-0.26
WHQRL4	0.26	0.08	0.07	0.03	-0.13	-0.05	0.00	0.07
WHQRL5	-0.04	-0.06	0.05	-0.27	0.08	-0.08	-0.14	-0.39
DLOPR1	-0.16	0.09	-0.01	-0.47	0.03	0.16	-0.13	0.08
DLOPR2	-0.13	0.18	0.69	-0.05	0.33	-0.08	0.21	0.12
DLOPR3	-0.03	-0.22	0.13	-0.14	0.47	0.18	-0.09	0.00
DLOPR4	-0.12	0.32	-0.02	-0.03	0.69	-0.01	0.16	-0.06
DLOPR5	-0.13	0.40	-0.03	0.34	0.03	0.14	-0.08	0.15
DLOPL1	-0.04	-0.04	0.05	-0.32	0.15	0.09	0.15	0.09
DLOPL2	0.01	-0.11	0.16	-0.27	0.50	0.17	0.17	0.22
DLOPL3	-0.09	-0.16	0.30	0.15	0.71	-0.05	-0.09	0.12
DLOPL4	-0.15	0.09	-0.08	-0.07	0.69	-0.05	0.00	0.14
DLOPL5	-0.01	0.00	0.11	-0.02	0.16	-0.06	-0.02	0.87

TABLE 5.16 : EIGENVALUES FOR PRINCIPAL COMPONENTS ANALYSIS:
BASED ON 32 PALMAR TRAITS

COMPONENT	(MALES)				(FEMALES)			
	EIGENVALUE	PCT OF VAR	CUM PCT	COMPONENT	EIGENVALUE	PCT OF VAR	CUM PCT	
1	7.08680	22.1	22.1	1	6.37309	19.9	19.9	19.9
2	4.12695	12.9	35.0	2	4.22526	13.2	33.1	33.1
3	3.65970	11.4	46.5	3	2.90363	9.1	42.2	42.2
4	2.21076	6.9	53.4	4	2.81819	8.8	51.0	51.0
5	2.15055	6.7	60.1	5	2.51972	7.9	58.9	58.9
6	1.74541	5.5	65.6	6	2.05790	6.4	65.3	65.3
7	1.66700	5.2	70.8	7	1.70795	5.3	70.6	70.6
8	1.45947	4.6	75.3	8	1.54740	4.8	75.5	75.5
9	1.30744	4.1	79.4	9	1.28520	4.0	79.5	79.5
10	1.06511	3.3	82.7	10	1.19581	3.7	83.2	83.2
11	0.97783	3.1	85.8	11	1.01858	3.2	86.4	86.4
12	0.85301	2.7	88.5	12	0.87443	2.7	89.1	89.1
13	0.68036	2.1	90.6	13	0.66738	2.1	91.2	91.2
14	0.52880	1.7	92.2	14	0.52787	1.6	92.9	92.9
15	0.47083	1.5	93.7	15	0.49342	1.5	94.4	94.4
16	0.41234	1.3	95.0	16	0.36769	1.1	95.6	95.6
17	0.37694	1.2	96.2	17	0.35978	1.1	96.7	96.7
18	0.33015	1.0	97.2	18	0.25629	0.8	97.5	97.5
19	0.24290	0.8	98.0	19	0.19483	0.6	98.1	98.1
20	0.17550	0.5	98.5	20	0.15807	0.5	98.6	98.6
21	0.12698	0.4	98.9	21	0.13742	0.4	99.0	99.0
22	0.10599	0.3	99.3	22	0.09399	0.3	99.3	99.3
23	0.07953	0.2	99.5	23	0.07367	0.2	99.6	99.6
24	0.07265	0.2	99.7	24	0.06014	0.2	99.7	99.7
25	0.04565	0.1	99.9	25	0.03679	0.1	99.9	99.9
26	0.01958	0.1	99.9	26	0.02232	0.1	99.9	99.9
27	0.00943	0.0	100.0	27	0.01379	0.0	100.0	100.0
28	0.00824	0.0	100.0	28	0.00631	0.0	100.0	100.0
29	0.00299	0.0	100.0	29	0.00207	0.0	100.0	100.0
30	0.00116	0.0	100.0	30	0.00093	0.0	100.0	100.0
31	0.00001	0.0	100.0	31	0.00010	0.0	100.0	100.0
32	-0.00002	0.0	100.0	32	0.00002	0.0	100.0	100.0

TABLE 5.17 : PRINCIPAL COMPONENTS ANALYSIS(UNROTATED SOLUTION) :-
ANALYSIS BASED ON 32 PALMAR TRAITS(MALES).

TRAIT	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10	COMMUNALITY
RAB	0.10	0.80	0.26	-0.01	-0.13	-0.21	0.01	0.07	-0.08	0.08	0.79
LAB	0.11	0.76	0.33	0.04	-0.04	-0.24	0.04	-0.01	-0.01	-0.08	0.77
RBC	0.46	0.58	0.55	-0.02	0.05	-0.10	-0.12	0.08	-0.05	0.07	0.89
LBC	0.31	0.46	0.61	0.07	0.25	0.04	0.10	-0.01	-0.05	0.24	0.81
RCD	0.18	0.68	0.32	-0.34	-0.09	0.19	-0.17	0.01	0.20	-0.21	0.86
LCD	0.08	0.49	0.42	-0.16	-0.32	0.29	0.03	0.08	0.36	-0.14	0.79
P2R	0.76	-0.24	0.09	-0.10	-0.06	0.25	-0.01	-0.01	-0.23	0.11	0.79
P2L	0.69	-0.19	0.03	-0.20	0.28	0.20	-0.27	0.30	0.09	0.24	0.90
P3R	0.38	0.03	-0.31	-0.42	-0.52	-0.16	0.26	0.10	-0.19	0.05	0.83
P3L	0.26	-0.34	0.08	0.22	-0.47	-0.19	-0.06	0.54	0.14	-0.25	0.87
P3TR	-0.16	0.00	-0.40	-0.42	0.33	0.36	0.14	-0.28	0.05	-0.20	0.73
P3TL	0.27	0.29	-0.30	-0.64	0.13	-0.14	0.08	-0.17	-0.23	0.03	0.78
P4R	0.42	-0.19	0.36	0.62	0.24	-0.13	0.09	-0.04	0.20	0.09	0.86
P4L	0.31	-0.04	0.20	0.06	0.68	-0.08	-0.02	-0.40	0.13	-0.19	0.82
PHR	0.35	0.48	-0.64	0.10	0.02	-0.05	-0.02	0.06	-0.03	0.03	0.79
PHL	0.19	0.35	-0.62	0.36	0.10	0.02	0.03	-0.09	0.18	0.28	0.80
CHR	0.09	0.29	-0.11	0.12	0.00	0.68	0.28	0.05	0.11	-0.28	0.76
CHL	0.19	0.21	-0.02	0.35	0.21	0.48	0.27	0.35	-0.40	-0.22	0.89
TEFR	-0.05	-0.25	0.38	0.27	-0.23	0.18	0.30	-0.17	0.08	0.03	0.50
TEFL	0.37	-0.04	0.47	0.04	-0.28	0.17	0.01	-0.44	-0.16	0.17	0.72
TDR	0.87	-0.22	-0.03	0.00	-0.10	0.03	0.32	-0.04	-0.05	0.08	0.93
TDL	0.81	-0.21	0.07	-0.18	0.31	-0.15	-0.11	0.18	0.09	-0.18	0.94
AXR	0.42	0.56	-0.52	0.13	-0.04	-0.04	-0.02	0.11	-0.05	0.06	0.79
AXL	0.35	0.42	-0.57	0.37	0.12	0.00	-0.11	-0.03	0.15	0.16	0.84
TDR3	-0.09	0.02	0.17	0.10	-0.13	0.10	-0.77	-0.20	-0.36	-0.12	0.85
TDL3	0.00	0.04	-0.29	0.12	-0.52	0.37	-0.36	-0.30	0.29	0.14	0.82
TDR4	-0.86	0.19	-0.06	0.00	0.22	0.00	-0.04	0.22	0.12	-0.01	0.89
TDL4	-0.79	0.13	0.21	-0.03	0.13	0.01	0.31	0.13	-0.25	0.23	0.93
TDR5	0.65	-0.13	0.03	-0.13	-0.20	-0.17	0.44	-0.22	0.24	0.04	0.83
TDL5	0.68	-0.02	-0.18	0.18	-0.02	-0.34	-0.06	-0.17	-0.01	-0.50	0.93
TDR6	0.72	-0.18	-0.03	0.17	-0.02	0.24	-0.13	0.04	-0.41	0.04	0.83
TDL6	0.48	-0.33	0.13	-0.41	0.23	0.19	-0.20	0.32	0.33	0.24	0.93

TABLE 5.18 : PRINCIPAL COMPONENTS ANALYSIS(UNROTATED SOLUTION):-
BASED ON 32 PALMAR TRAITS(FEMALES).

TRAIT	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10	COMMUNALITY
RAB	-0.34	0.75	0.13	-0.11	0.03	0.34	-0.01	0.06	0.02	-0.13	0.88
LAB	-0.34	0.74	0.22	0.01	0.07	0.23	0.12	0.05	-0.06	-0.15	0.84
RBC	-0.10	0.68	0.48	0.20	-0.18	0.02	0.11	-0.05	0.00	0.15	0.85
LBC	0.08	0.73	0.30	0.24	-0.13	-0.03	0.06	-0.06	0.21	0.09	0.87
RCD	0.06	0.66	-0.08	0.04	0.15	-0.08	-0.26	-0.09	-0.27	-0.21	0.68
LCD	-0.08	0.78	-0.20	0.10	0.06	0.24	-0.28	0.01	-0.10	-0.11	0.83
P2R	0.53	0.26	0.01	-0.09	-0.40	-0.40	-0.16	0.14	0.33	0.01	0.85
P2L	0.58	0.20	-0.27	-0.33	0.00	-0.05	-0.11	-0.21	0.17	0.15	0.69
P3R	0.54	0.00	-0.16	-0.38	0.18	-0.24	-0.14	0.47	-0.27	-0.09	0.90
P3L	0.10	-0.25	-0.01	-0.37	-0.17	0.50	0.11	0.57	0.04	-0.29	0.92
P3TR	-0.03	0.47	-0.35	-0.05	-0.16	0.30	-0.19	0.04	0.01	0.43	0.73
P3TL	-0.04	0.37	-0.23	0.11	0.06	-0.43	0.33	0.12	-0.41	0.29	0.84
P4R	0.32	-0.13	0.55	0.46	-0.25	0.15	0.25	-0.23	0.16	-0.24	0.92
P4L	0.49	-0.19	0.50	0.22	0.22	0.02	-0.28	-0.43	-0.13	0.12	0.93
PHR	0.25	-0.01	0.04	0.10	0.31	0.13	-0.16	0.06	0.27	-0.17	0.89
PHL	0.26	-0.06	-0.23	0.71	0.25	0.09	0.22	0.31	0.10	0.22	0.91
CHR	0.22	-0.35	-0.32	0.10	-0.36	0.52	0.02	-0.23	-0.06	0.23	0.80
CHL	0.23	-0.25	-0.17	0.07	-0.50	0.60	-0.21	-0.03	-0.01	-0.07	0.91
TEFR	0.11	0.00	0.13	-0.54	0.17	0.23	0.55	-0.28	0.16	0.00	0.84
TEFL	0.22	0.20	0.37	-0.52	0.12	0.08	0.47	0.04	0.12	0.20	0.81
TDR	0.92	0.18	0.22	0.07	-0.29	-0.09	-0.06	0.26	0.09	-0.11	0.94
TDL	0.80	-0.08	0.34	-0.06	0.14	0.13	-0.09	0.01	-0.32	0.10	0.93
AXR	0.27	0.02	-0.04	-0.04	0.82	0.23	-0.09	0.02	0.23	-0.02	0.86
AXL	-0.22	-0.05	-0.18	0.71	0.19	0.17	0.26	0.32	0.18	0.26	0.93
TDR3	0.18	0.08	-0.65	0.04	0.14	-0.25	0.18	-0.43	0.07	-0.26	0.89
TDL3	0.00	0.34	-0.65	-0.23	-0.12	0.05	0.18	-0.09	0.29	0.02	0.95
TDR4	-0.91	-0.18	0.27	-0.21	0.13	0.15	-0.11	0.09	-0.04	-0.29	0.78
TDL4	-0.74	-0.20	0.26	0.24	-0.03	-0.17	-0.21	0.09	0.13	-0.09	0.96
TDR5	0.71	0.15	-0.20	0.40	-0.12	0.03	0.14	-0.03	-0.13	-0.31	0.89
TDL5	0.74	-0.01	0.11	-0.10	0.09	0.16	0.32	-0.03	-0.42	0.02	0.94
TDR6	0.66	0.09	0.26	-0.25	-0.22	-0.25	-0.11	0.15	0.31	0.10	0.83
TDL6	0.63	0.05	0.01	-0.16	0.13	0.11	-0.44	-0.12	0.09	0.27	0.76

TABLE 5.19 : PRINCIPAL COMPONENTS ANALYSIS (VARIMAX ROTATED SOLUTION) :-
ANALYSIS BASED ON 32 PALMAR TRAITS (MALES).

TRAIT	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10
RAB	-0.03	0.82	0.23	0.08	-0.10	-0.05	-0.18	-0.09	-0.07	-0.03
LAB	-0.06	0.82	0.15	0.00	0.03	-0.03	-0.21	-0.11	0.08	0.01
RBC	0.24	0.86	0.05	-0.11	0.04	-0.02	0.18	-0.14	0.05	-0.10
LBC	0.23	0.72	-0.03	-0.26	0.27	0.07	0.15	-0.21	-0.20	0.03
RCD	-0.09	0.79	-0.04	0.27	0.07	0.18	0.15	0.28	0.13	-0.05
LCD	-0.06	0.67	-0.18	0.01	-0.12	0.25	0.07	0.44	0.02	0.15
P2R	0.78	-0.01	0.00	0.04	-0.03	0.14	0.40	-0.03	0.07	-0.05
P2L	0.37	0.02	0.13	-0.01	0.02	0.03	0.96	-0.07	0.05	-0.06
P3R	0.43	0.01	0.13	0.56	-0.47	-0.10	-0.04	0.01	0.06	0.28
P3L	0.10	-0.09	-0.13	-0.30	-0.75	0.01	0.17	0.00	0.39	0.06
P3TR	-0.17	-0.29	0.02	0.53	0.47	0.29	0.03	0.14	0.01	0.13
P3TL	0.19	0.16	0.20	0.76	0.20	-0.13	0.09	-0.16	0.04	0.10
P4R	0.30	0.08	0.06	-0.80	0.16	-0.04	0.12	-0.17	0.19	0.13
P4L	0.12	0.08	-0.03	-0.19	0.75	-0.02	0.17	-0.20	0.36	0.03
PHR	0.06	0.09	0.82	0.26	-0.06	0.11	0.00	-0.02	0.14	0.03
PHL	-0.01	-0.07	0.86	-0.07	0.10	0.03	-0.05	0.13	-0.06	0.12
CHR	0.01	0.10	0.13	0.03	0.09	0.79	-0.03	0.28	0.00	0.15
CHL	0.15	0.07	0.18	-0.12	-0.06	0.82	-0.02	-0.34	-0.07	-0.10
TEFR	0.24	-0.04	-0.36	-0.40	-0.02	0.11	-0.23	0.18	-0.12	0.20
TEFL	0.67	0.27	-0.26	-0.15	0.14	-0.07	-0.10	0.24	-0.10	-0.09
TDR	0.82	-0.02	0.15	-0.03	-0.07	0.07	0.25	-0.08	0.22	0.34
TDL	0.40	0.07	0.04	0.00	0.07	-0.03	0.64	-0.27	0.53	0.09
AXR	0.12	0.24	0.80	0.20	-0.12	0.13	0.01	-0.02	0.12	0.01
AXL	0.04	0.04	0.89	-0.09	0.08	0.06	0.04	0.10	0.11	0.00
TDR3	0.05	0.07	-0.12	-0.01	0.02	-0.11	-0.07	0.17	0.06	-0.88
TDL3	0.09	-0.13	0.25	-0.01	-0.11	-0.02	-0.07	0.32	-0.06	-0.20
TDR4	-0.97	-0.05	-0.07	0.02	0.04	0.05	-0.18	-0.06	-0.31	-0.05
TDL4	-0.47	0.03	-0.28	0.01	0.03	0.05	-0.36	-0.29	-0.64	0.05
TDR5	0.60	0.08	0.03	0.02	0.01	-0.15	0.07	0.09	0.28	0.59
TDL5	0.40	0.03	0.26	-0.02	0.01	-0.04	-0.04	-0.12	0.33	0.00
TDR6	0.73	-0.07	0.19	-0.07	-0.08	0.23	0.27	-0.14	0.12	-0.29
TDL6	0.18	-0.03	-0.12	0.03	0.01	-0.07	0.92	0.07	0.00	0.14

TABLE 5.20 : PRINCIPAL COMPONENTS ANALYSIS (VARIMAX ROTATED SOLUTION) :-
BASED ON 32 PALMAR TRAITS (FEMALES).

TRAIT	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10
RAB	0.87	-0.09	-0.10	0.01	-0.03	0.19	-0.07	-0.21	-0.05	0.00
LAB	0.84	-0.15	-0.01	-0.06	-0.17	0.20	-0.05	-0.15	0.05	-0.06
RBC	0.64	0.11	0.08	-0.25	-0.19	0.09	-0.36	0.06	0.28	0.09
LBC	0.60	0.28	0.15	-0.08	-0.19	0.01	-0.23	0.06	0.30	0.33
RCD	0.70	0.04	-0.13	0.12	-0.06	-0.18	0.23	0.17	-0.14	-0.07
LCD	0.82	0.00	-0.01	0.11	0.05	-0.25	0.08	0.04	-0.17	0.20
P2R	0.01	0.89	-0.01	-0.16	-0.08	-0.06	0.11	0.00	0.01	0.10
P2L	0.01	0.53	-0.12	0.18	0.21	0.22	0.31	0.21	-0.28	0.15
P3R	-0.15	0.37	-0.11	0.16	-0.28	-0.15	0.02	0.58	-0.37	0.03
P3L	-0.08	0.04	-0.05	0.05	0.26	0.16	-0.20	0.11	0.02	-0.01
P3TR	0.46	0.13	0.16	-0.09	0.40	0.04	-0.04	-0.10	-0.52	0.14
P3TL	0.19	-0.04	0.33	-0.42	0.41	0.10	0.27	0.15	-0.45	-0.13
P4R	-0.03	0.17	0.20	-0.08	0.16	0.11	0.00	0.08	0.55	-0.25
P4L	-0.15	0.16	-0.10	0.35	0.14	-0.08	-0.14	0.41	0.34	-0.35
PHR	0.02	-0.02	0.17	0.90	-0.19	-0.01	0.05	0.08	0.07	-0.02
PHL	-0.08	-0.01	0.91	0.16	0.02	-0.16	0.08	0.09	0.03	0.00
CHR	-0.22	-0.07	0.15	-0.14	0.82	0.05	0.10	0.13	-0.03	0.04
CHL	-0.04	0.08	-0.01	-0.10	0.32	-0.17	-0.01	0.09	0.14	0.01
TEFR	-0.04	-0.07	-0.19	0.11	0.04	0.86	0.13	0.10	0.06	0.05
TEFL	0.09	0.21	-0.07	0.03	-0.16	0.81	-0.17	0.19	-0.03	-0.04
TDR	0.06	0.80	0.16	-0.03	0.03	-0.06	0.02	0.41	0.25	-0.09
TDL	-0.07	0.37	0.03	0.23	0.15	0.12	-0.05	0.70	0.06	-0.45
AXR	0.04	-0.03	0.17	0.87	-0.07	0.17	0.07	0.12	-0.10	-0.03
AXL	-0.04	0.00	0.94	0.13	0.09	-0.08	0.02	0.01	0.07	0.00
TDR3	-0.07	-0.01	0.02	0.07	-0.02	0.03	0.88	-0.03	-0.11	0.24
TDL3	0.13	0.02	-0.02	-0.04	0.08	0.04	0.22	0.02	-0.21	0.91
TDR4	-0.04	-0.56	-0.23	-0.02	-0.03	0.07	-0.64	-0.39	-0.19	-0.04
TDL4	-0.02	-0.27	0.04	-0.12	-0.18	-0.19	-0.16	-0.77	0.09	-0.42
TDR5	0.12	0.33	0.35	-0.02	0.15	-0.17	0.54	0.47	0.28	-0.05
TDL5	-0.08	0.12	0.09	0.04	0.07	0.22	0.06	0.91	0.12	-0.03
TDR6	-0.11	0.87	-0.06	0.04	-0.02	0.17	-0.08	0.16	0.05	-0.05
TDL6	-0.01	0.53	-0.06	0.41	0.32	0.02	0.00	0.25	-0.23	-0.15

TABLE 5.21 : STATISTICAL (SPEARMAN) CORRELATIONS (SC) COMPARED TO TAXONOMIC (PEARSON) CORRELATIONS (TC) :
SUMMARY ATTRIBUTES (EXCLUDING NOMINAL DIGITAL ATTRIBUTES) - MALES LOWER MATRIX, FEMALES UPPER MATRIX.

ATTRIBUTE	FEMALES										MALES									
	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC
RTADRC			.89	.89	.60	.75	.60	.66	.98	.92	.89	.91	.93	.94	.86	.87	.61	.63		
LTADRC	.87	.88			.65	.76	.58	.66	.90	.89	.95	.98	.88	.88	.92	.94	.63	.68		
RTULNRC	.62	.66	.66	.66			.72	.81	.68	.72	.71	.80	.84	.93	.76	.86	.87	.85		
LTULNRC	.58	.55	.56	.53	.74	.90			.64	.67	.71	.74	.72	.78	.83	.87	.66	.75		
RTRC	.97	.99	.88	.87	.71	.72	.62	.57			.92	.91	.96	.96	.89	.96	.64	.61		
LTRC	.88	.89	.96	.99	.72	.68	.68	.59	.90	.88			.91	.92	.96	.93	.64	.70		
RTARSRC	.91	.92	.86	.84	.68	.90	.73	.73	.94	.95	.90	.95			.92	.92	.81	.79		
LTARSRC	.84	.84	.90	.93	.79	.79	.95	.81	.92	.84	.95	.94	.92	.89			.72	.70		
RTFPI	.60	.77	.61	.71	.86	.86	.65	.67	.65	.78	.64	.72	.80	.89	.71	.77				
LTFFI	.58	.67	.57	.62	.68	.74	.88	.86	.60	.67	.65	.64	.70	.77	.80	.80	.67	.80		
RTPRC	.09	.05	.10	.16	.03	.02	.07	.05	.09	.09	.11	.16	.07	.03	.09	.09	.01	.00		
LTPRC	.13	.05	.13	.08	.06	.04	.07	.04	.13	.02	.13	.10	.11	.02	.11	.08	.04	.08		
TDR	.02	.22	.04	.16	.07	.23	.08	.19	.03	.25	.03	.19	.04	.25	.06	.19	.10	.20		
TDL	.02	.24	.04	.17	.06	.33	.06	.26	.03	.30	.04	.20	.04	.32	.05	.22	.07	.26		
RTPLMI	-.01	-.03	.02	.01	-.00	-.02	.04	.04	-.01	-.03	.02	.03	-.01	-.02	.03	.03	.03	.11		
LTPLMI	.03	-.03	.05	-.03	.04	.06	.04	.05	.03	.03	.05	-.01	.03	.02	.05	-.02	.03	.07		

ATTRIBUTE	FEMALES										MALES									
	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC
RTADRC			.60	.59	.11	.23	.09	.20	.02	-.02	.01	.05	.05	-.05	.01	-.08				
LTADRC	.58	.62			.09	.16	.07	.08	.02	-.09	.01	.01	.05	.01	.01	-.13				
RTULNRC	.48	.65	-.00	.23	-.01	.13	.03	.10	.04	.03	.03	.03	.03	.02	.01	.03				
LTULNRC	.87	.80	.02	.07	.03	.01	.03	.06	.03	.05	.04	.01	.07	.07						
RTRC	.61	.57	.11	.24	.09	.22	.01	.03	.01	.00	.04	-.02	.01	-.06						
LTRC	.67	.65	.09	.16	.08	.08	.02	.03	.01	.03	.04	-.00	.01	-.13						
RTARSRC	.71	.65	.07	.25	.06	.19	.02	.04	.02	.04	.04	-.02	.00	-.07						
LTARSRC	.80	.76	.07	.14	.05	.05	.03	.02	.03	.02	.05	-.00	.01	-.11						
RTFPI	.69	.82	.01	.00	.03	.09	.10	.06	.02	-.07	.06	-.04	.02	-.08						
LTFFI			.04	-.01	.05	-.12	.09	.20	.04	-.07	.05	-.07	.04	-.14						
RTPRC	.04	-.05			.87	.90			.03	.02	.03	.14	-.09	.02						
LTPRC	.05	-.12	.85	.91					-.05	.02		.12	-.00	.02						
TDR	.09	.04	-.08	.04	-.12	.03					.61	.61	.30	.59						
TDL	.06	.19	-.07	.05	-.09	.05	.54	.61			.32	.54	.57	.63						
RTPLMI	.05	-.15	-.03	.12	-.04	.14	.62	.79	.30	.18			.40	.21						
LTPLMI	.03	-.12	-.06	.24	-.05	.19	.12	.66	.62	.67	.50	.56								

TABLE 5.23 : STATISTICAL SPEARMAN CORRELATIONS (SC)
 COMPARED TO
 TAXONOMICAL (PEARSON) CORRELATIONS (TC):
 PALMAR RIDGE COUNTS (MALES LOWER MATRIX
 /FEMALES UPPER MATRIX).

F E M A L E S												
RAB			RBC			RCD			LAB			
SC TC			SC TC			SC TC			SC TC			
RAB												
RBC	.24	.61	.19	.48	.29	.50	.69	.88	.25	.42	.31	.60
RCD	.33	.57			.16	.31	.21	.55	.69	.83	.27	.41
LAB	.73	.86	.21	.61			.28	.39	.19	.27	.69	.73
LBC	.27	.44	.26	.61	.32	.58			.21	.50	.32	.52
LCD	.34	.40	.73	.80	.21	.40	.23	.48			.19	.43
			.29	.48	.70	.68	.35	.36	.22	.38		
RAB			RBC			RCD			LAB			
SC TC			SC TC			SC TC			SC TC			
RAB												
RBC												
RCD												
LAB												
LBC												
LCD												

M A L E S												
RAB			RBC			RCD			LAB			
SC TC			SC TC			SC TC			SC TC			
RAB												
RBC												
RCD												
LAB												
LBC												
LCD												

TABLE 5.24 : Statistical (Spearman) Correlations (SC) Compared to taxonomic (Pearson) (TC) : Palmar patterns and triradii (Males lower Matrix/females upper matrix).

FEMALES

	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC		
P2R		.20	.29	.02	.08	-.04	-.09	-.04	-.04	.08	-.14	.49	.71	.49	.41	.21	-.06	-.01	.06	-.04	-.05	-.02	.03	.07	.15	.29	.26	
P3R	.25		.26		-.53	-.39	.02	.17	.00	-.13	.09	.00	.46	.45	.18	.29	.49	.30	-.22	.06	.03	.02	-.02	-.12	.12	.16	.36	.43
P4R	-.03	.23	-.51	-.42																								
PHR	-.04	.08	-.03	.28	.00	-.15			.00	-.20	-.02	.03	-.01	.06	-.01	.04	.01	-.02	.00	.30	.46	.25	-.01	-.18	-.04	.05	.02	.24
CHR	-.01	.06	-.05	-.02	.04	-.02	.01	.17		-.06	.07	-.03	.02	-.04	.08	-.04	.20	-.01	.11	.07	.15	.52	.61	-.08	-.12	.00	.14	
TEFR	.05	.05	.08	-.07	.02	.14	.02	-.29	-.08	-.04			.07	-.06	.02	.16	.16	.20	-.02	.01	.01	-.23	.01	-.13	.50	.65	.12	.10
TDR	.61	.75	.41	.49	.33	.44	-.01	.16	-.01	.08	.09	.05		.29	.36	.31	.15	.13	.32	.02	.16	.00	.19	.08	.19	.51	.62	
P2L	.51	.68	.16	.10	.01	.21	.03	.13	.00	-.02	.07	-.08	.35	.50			.20	-.02	-.03	.08	-.04	-.04	-.01	.06	.09	.21	.34	.39
P3L	.23	.12	.47	.21	-.18	.21	-.01	-.06	-.02	-.10	.10	.18	.32	.26	.17	.13		-.41	-.37	.02	-.06	.01	.41	.12	.18	.45	.16	
P4L	.01	.16	-.22	-.26	.34	.37	.02	.00	.00	-.01	-.04	.03	-.15	.20	.01	.21	-.41	-.39		-.02	.07	.00	.02	-.07	.04	.42	.64	
PHL	.02	-.09	.03	.07	-.04	.05	.44	.57	.03	.21	.03	-.16	.02	.11	.04	.05	.03	-.10	.01	-.04			-.01	-.03	-.02	-.18	.02	.11
CHL	-.01	.21	-.04	-.08	.02	.15	.01	.20	.56	.48	-.04	.06	-.03	.17	-.02	.14	.01	.00	-.02	.00	.03	.12		-.03	-.18	.02	.16	
TEFL	.09	.37	.13	.07	.00	.24	.02	-.14	-.06	.05	.48	.42	.14	.32	.06	.10	.11	.08	-.03	.11	.08	-.14	-.05	-.05		.06	.28	
TDL	.37	.55	.33	.20	.11	.33	.02	.16	.01	-.07	.06	-.06	.56	.62	.46	.74	.37	.34	.46	.47	.08	.00	.00	.07	.12	.19		

MALES

Table 5.25: Analytical comparison of statistical and taxonomic correlations through pairwise t-tests, for 4 major groups of attributes.

A: Summary Attributes: Total

SC $\bar{X}$	TC $\bar{X}$	Sd	Sd	$\bar{X}-\bar{X}$	r	t	DF	P(2)	Males	Females	(n=120)
.307	.342	.35	.35	.04	.96	-4.1	119	.000			
.303	.323	.36	.37	.02	.98	-2.8	119	.006			

A1: Digital only

.720	.731	.13	.12	.01	.87	-1.15	44	.256	Males		(n=45)
.727	.744	.13	.12	.02	.85	-1.74	44	.088	Females		

A2: Palmar Only

.233	.320	.30	.31	.09	.96	-4.0	14	.001	Males		(n=15)
.227	.280	.28	.35	.05	.96	-1.8	14	.088	Females		

A3: Digital vs. Palmar

.015	.055	.04	.10	.04	.002	-2.3	59	.006	Males		(n=60)
.005	.018	.00	.01	.01	.336	-1.4	59	.172	Females		

B: Digital Ridge Counts

.393	.458	.14	.19	.07	.76	-7.2	189	.000	Males		(n=190)
.383	.456	.14	.17	.07	.75	-9.0	189	.000	Females		

B1: Radial Ridge Counts

.561	.642	.11	.15	.08	.84	-6.8	44	.000	Males		(n=45)
.539	.575	.12	.16	.04	.77	-2.7	44	.010	Females		

B2: Ulnar Ridge Counts

.349	.404	.13	.19	.06	.81	-3.4	44	.001	Males		(n=45)
.346	.406	.14	.19	.06	.75	-3.2	44	.003	Females		

B3: Radial vs. Ulnar Ridge Counts

.337	.399	.09	.16	.06	.41	-4.3	99	.000	Males		(n=100)
.332	.426	.09	.14	.09	.62	-8.8	99	.000	Females		

C: Palmar Patterns and Triradii

.135	.196	.17	.18	.06	.83	-5.8	90	.000	Males		(n=91)
.129	.183	.17	.16	.05	.76	-4.5	90	.000	Females		

D: Palmar Ridge Counts

.362	.551	.19	.15	.19	.75	-5.8	14	.000	Males		(n=15)
.329	.521	.19	.18	.19	.90	-8.7	14	.000	Females		

SC $\bar{X}$ = Mean of Statistical Correlations; TC $\bar{X}$ = Mean of taxonomic Correlations

$\bar{X}-\bar{X}$ = TC $\bar{X}$ - SC $\bar{X}$; r = Pearson's r; P(2) = 2 tailed probability.

Table 6.1: Concordance between principal vectors and components
as measured by Spearman's correlation coefficient.

i) Correlations between PCO vectors from distances based on
26 summary traits and 110 traits:

Males:

PCO26(1) vs PCO110(1) = 0.88
PCO26(2) vs PCO110(2) = 0.51
PCO26(3) vs PCO110(3) = -0.74

Females:

PCO26(1) vs PCO110(1) = 0.89
PCO26(2) vs PCO110(2) = -0.09 : vs PCO110(3) = -0.49
PCO26(3) vs PCO110(3) = -0.24 : vs PCO110(2) = 0.74

ii) Correlations between PCO vectors and unrotated component
scores: (UNC)

Males:

PCO26(1) vs UNC1 = 0.96 : PCO110(1) vs UNC1 = 0.87
PCO26(2) vs UNC2 = -0.78 : PCO110(2) vs UNC2 = -0.39
" vs UNC3 = -0.26
" vs UNC4 = 0.41
PCO26(3) vs UNC3 = -0.84 : PCO110(3) vs UNC3 = 0.70

Females:

PCO26(1) vs UNC1 = 0.97 : PCO110(1) vs UNC1 = 0.90
PCO26(2) vs UNC2 = -0.70 : PCO110(2) vs UNC2 = -0.15
" vs UNC3 = 0.65
PCO26(3) vs UNC3 = 0.66 : PCO110(3) vs UNC3 = 0.02
" vs UNC2 = 0.45

iii) Correlations between PCO vectors and rotated component
scores: (C)

Males:

PCO26(1) vs C1 = 0.33 : PCO110(1) vs C1 = 0.34
" vs C2 = 0.62 : " vs C2 = 0.60
PCO26(2) vs C2 = 0.01 : PCO110(2) vs C2 = 0.07
" vs C3 = -0.075 : " vs C3 = -0.53
" vs C4 = -0.40
PCO26(3) vs C3 = -0.13 : PCO110(3) vs C3 = -0.01
" vs C1 = 0.55 : " vs C1 = -0.55

TABLE 7.1 : T-test Probabilities for differences in attribute means between the sexes
and χ^2 Probabilities for comparisons involving qualitative attributes.

Attribute	Right Hand		Attribute	Left Hand	
	T.Prob.	T.Prob.		T.Prob.	T.Prob.
RF1	.000	.000	AB	.000	.024
RF2	.188	.000	BC	.348	.004
RF3	.009	.000	CD	.009	.000
RF4	.000	.000	TPRC	.000	.000
RF5	.000	.000	TD	.000	.000
TRADRC	.000	.000	TOTHI	.434	.128
FUI	.000	.774	TPIMI	.008	.000
FU2	.000	.238	ATD	.000	.000
FU3	.000	.415			
FD4	.000	.040			
FU5	.000	.418			
TULNRC	.000	.483			
FI	.000	.000	PT	.583	.013
F2	.002	.000	RT	.207	.004
F3	.000	.000	P2	.000	.000
F4	.000	.000	P3	.000	.000
F5	.000	.000	P3T	.075	.008
TRC	.000	.000	P4	.000	.428
ABS1	.000	.000	PH	.285	.318
ABS2	.001	.014	CH	.948	.227
ABS3	.000	.000	TTF	.345	.004
ABS4	.000	.000	t	.000	.000
ABS5	.000	.000	t'	.000	.000
TARSHC	.000	.000	t''	.724	.329
D1	.000	.596	t ₀	.725	.233
D2	.000	.232	FP1	-	-
D3	.000	.011	FP2	-	-
D4	.000	.003	FP3	-	-
D5	.000	.180	FP4	-	-
TFPI	.000	.021	FP5	-	-
			TOTAL FINGER PATTERNS		
				Right Hand	Left Hand
				χ^2 Prob.	χ^2 Prob.
				.401	.004
				.437	.014
				.000	.000
				.000	.001
				.084	.008
				.000	.004
				.495	.280
				.995	.420
				.410	.009
				.000	.000
				.000	.000
				.420	.519
				.748	.247
				.000	.001
				.001	.002
				.000	.006
				.000	.000
				.000	.048
				.000	.000

TABLE 7.2 : T-test probabilities for univariate comparisons
between ethnic categories (males).

(1) Cushites; (2) Nilotes; (3) Bantu.

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Attribute	Right Hand			Left Hand		
	1v2	1v3	2v3	1v2	1v3	2v3
FR1	.000	.000	.097	.000	.000	.780
FR2	.002	.000	.017	.000	.000	.029
FR3	.032	.020	.987	.000	.000	.574
FR4	.001	.059	.043	.002	.000	.764
FR5	.000	.000	.470	.000	.000	.323
TRADRC	.000	.000	.490	.000	.000	.216
FU1	.000	.044	.000	.000	.263	.000
FU2	.005	.073	.105	.044	.035	.883
FU3	.027	.004	.572	.108	.006	.257
FU4	.003	.000	.061	.045	.002	.284
FU5	.479	.198	.063	.771	.003	.002
TULNRC	.000	.000	.364	.001	.001	.683
F1	.000	.000	.069	.000	.000	.292
F2	.000	.000	.312	.003	.000	.284
F3	.012	.002	.725	.001	.000	.220
F4	.001	.022	.110	.002	.000	.701
F5	.000	.000	.455	.000	.000	.191
TRC	.000	.000	.368	.000	.000	.461
ABS1	.000	.000	.001	.000	.000	.009
ABS2	.000	.000	.833	.001	.000	.266
ABS3	.007	.001	.690	.001	.000	.299
ABS4	.000	.000	.990	.003	.000	.401
ABS5	.000	.000	.530	.000	.000	.021
TABSRC	.000	.000	.373	.000	.000	.571
D1	.002	.107	.031	.000	.649	.000
D2	.036	.043	.701	.019	.007	.895
D3	.046	.007	.579	.049	.003	.366
D4	.055	.004	.465	.875	.047	.050
D5	.669	.374	.119	.895	.005	.001
TFPI	.001	.000	.910	.000	.000	.640
AB	.000	.176	.002	.000	.014	.001
BC	.000	.000	.614	.028	.000	.111
CD	.081	.906	.016	.617	.975	.500
TPRC	.000	.003	.015	.002	.014	.159
TD	.218	.001	.017	.163	.097	.871
TOTHI	.825	.213	.258	.025	.128	.232
TPLMI	.137	.030	.579	.004	.000	.524
ATD	.000	.000	.050	.000	.000	.009
PT	.020	.018	.641	.000	.000	.524
RT	.221	.052	.619	.000	.000	.413
P2	.462	.052	.001	.619	.086	.009
P3	.120	.238	.499	.962	.463	.366
P3T	.952	.135	.098	.256	.926	.121
P4	.512	.001	.006	.137	.235	.544
PH	.478	.454	.960	.687	.199	.361
CH	.593	.049	.124	.004	.014	.353
TEF	.056	.020	.981	.000	.000	.960
t	.003	.000	.670	.009	.001	.683
t'	.001	.000	.874	.007	.000	.477
t _b	.410	.033	.180	.002	.006	.445

TABLE 7.3 : T-test probabilities for univariate comparisons
between ethnic categories (females)
(1) Cushites; (2) Nilotes; (3) Bantu

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Attribute	Right Hand			Left Hand		
	1v2	1v3	2v3	1v2	1v3	2v3
FR1	.000	.001	.890	.000	.000	.422
FR2	.418	.019	.036	.075	.000	.014
FR3	.648	.830	.721	.304	.095	.430
FR4	.118	.955	.025	.304	.095	.430
FR5	.068	.072	.827	.001	.000	.360
TRADRC	.047	.047	.930	.001	.000	.288
FU1	.009	.852	.000	.000	.905	.000
FU2	.341	.647	.415	.616	.747	.237
FU3	.398	.161	.440	.532	.106	.177
FU4	.403	.001	.001	.933	.177	.054
FU5	.131	.007	.115	.121	.323	.879
TULNRC	.035	.026	.788	.110	.255	.369
F1	.001	.002	.554	.000	.000	.015
F2	.073	.005	.219	.216	.028	.213
F3	.387	.448	.836	.313	.084	.385
F4	.139	.700	.101	.078	.005	.226
F5	.071	.000	.015	.002	.000	.249
TRC	.031	.044	.754	.002	.000	.543
ABS1	.000	.042	.020	.000	.002	.000
ABS2	.222	.077	.537	.233	.091	.565
ABS3	.428	.297	.826	.316	.038	.195
ABS4	.176	.037	.469	.277	.015	.096
ABS5	.032	.006	.603	.011	.000	.113
TABSRC	.023	.018	.876	.006	.001	.776
D1	.001	.094	.009	.000	.062	.000
D2	.739	.658	.881	.080	.055	.849
D3	.269	.047	.277	.745	.146	.128
D4	.115	.002	.071	.420	.032	.082
D5	.022	.003	.388	.257	.132	.789
TFPI	.012	.008	.866	.013	.018	.635
AB	.002	.078	.049	.006	.009	.730
BC	.003	.000	.430	.017	.000	.137
CD	.012	.652	.001	.001	.011	.107
TPRC	.000	.017	.044	.001	.001	.582
ATD	.128	.000	.000	.409	.000	.000
TD	.697	.182	.203	.275	.265	.927
TOTHI	.901	.123	.068	.158	.092	.724
TPLMI	.160	.382	.400	.001	.000	.968
PT	.002	.017	.176	.000	.000	.626
RT	.001	.004	.264	.000	.000	.891
P2	.516	.237	.569	.186	.077	.738
P3	.767	.955	.603	.454	.483	.873
P3T	.475	.906	.360	.166	.524	.271
P4	.570	.144	.288	.296	.150	.707
PH	.794	.410	.446	.888	.751	.822
CH	.741	.264	.043	.178	.082	.755
TEF	.000	.004	.183	.000	.000	.713
t	.004	.002	.931	.020	.000	.139
t' _b	.005	.020	.352	.025	.003	.479
t	.652	.134	.171	.063	.040	.839

Table 7.4; Summary of inter-category T-test probabilities; number of significant results for types of attribute group.

Variable Group	Number of Attributes	Number of Significant Differences (<0.05)					
		Males			Females		
		1v2*	1v3	2v3	1v2	1v3	2v3
Radial/Unilateral Ridge Counts	24	24	23	3	11	16	4
Ulnar/Absolute Ridge Counts	24	21	22	7	9	12	4
Finger Pattern Intensity	12	8	9	4	5	5	2
Total Digital	60	53	54	14	25	33	10
%		88.3	90.0	23.3	41.7	55.0	16.7
Palmar Ridge Counts	8	6	5	4	8	7	3
Palmar Triradial Intensity	6	2	3	1	1	1	0
Thenar Patterns	6	4	5	0	6	6	0
Interdigital Patterns	8	0	1	3	0	0	0
Hypothenar/Axial Patterns Triradii & ATD angle 12	12	8	10	2	4	6	3
Total Palmar	40	20	24	10	19	20	6
%		50.0	60.0	25.0	47.5	50.0	15.0
All Attributes Number & %	100	73	78	24	44	53	16

- * 1 = Cushitic Category
 2 = Nilotic Category
 3 = Bantu Category

Table 7.5: Differences in means, standard deviations or frequencies between the sexes (males minus females) in Kenyan Ethnic Categories for a representative sample of attributes.

	Cushites		Nilotes		Bantu	
	D i f f e r e n c e s i n					
Variables	mean or %	SD	mean or %	SD	mean or %	SD
DIGITAL						
RTRADRC	5.2	0.52	2.4	-0.14	2.8	-0.26
LTRADRC	6.36	0.33	4.63	-0.51	4.6	-0.31
RTRC	5.35	0.56	2.70	-0.16	3.17	-0.30
LTRC	5.75	0.58	4.17	-0.81	4.00	-0.53
RTULNRC	5.24	3.29	3.01	0.41	3.51	1.36
LTULNRC	1.77	1.97	0.07	-1.10	-0.40	0.06
RTABSRC	10.57	3.68	5.38	0.02	6.39	1.36
LTABSRC	8.36	3.02	4.58	-1.73	3.16	-0.32
RTFPI (x10)	3.68	0.28	3.06	0.01	3.11	0.08
LTfPI (x10)	1.26	-0.11	1.22	-1.41	0.55	-1.20
RARCH	-0.6	-	-0.9	-	-1.2	-
LARCH	-1.4	-	-1.8	-	-1.8	-
RULoop	-6.3	-	-4.9	-	-4.2	-
LULoop	0.0	-	1.6	-	2.7	-
RWHORL	5.4	-	3.2	-	3.3	-
LWHORL	1.5	-	1.3	-	-1.3	-
RDLoop	0.7	-	1.9	-	1.1	-
LDLoop	-0.4	-	0.1	-	1.4	-
PALMAR						
TDR (x10)	0.49	0.63	0.73	0.31	1.01	0.68
TDL (x10)	0.78	0.71	0.81	0.37	0.89	0.77
RTPLMI (x10)	0.45	0.62	0.21	-0.71	0.98	0.44
LTPLMI (x10)	1.32	1.66	0.94	0.94	1.45	1.28
RTOTHI (x10)	-0.17	0.22	-0.19	-0.24	-0.01	0.03
LTOTHI (x10)	-0.30	-0.35	-0.39	-0.38	-0.11	0.09
RTPRC	-1.11	1.81	-0.80	0.69	-1.03	0.78
LTPRC	-0.36	1.60	-0.97	0.76	-1.42	0.37
TEFR	1.6	-	-3.8	-	-0.7	-
TEFL	8.7	-	4.8	-	6.2	-
P3R	7.1	-	12.2	-	9.8	-
P3L	1.5	-	3.5	-	4.8	-
P4R	-9.8	-	-10.0	-	-6.5	-
P4L	-0.4	-	0.4	-	-1.3	-
CHR	1.3	-	-1.0	-	0.2	-
CHL	-0.6	-	-3.0	-	-1.1	-
TR	5.0	-	6.6	-	5.6	-
TL	4.0	-	4.6	-	7.2	-

Table 8.2: Principal coordinates analysis of Kenyan ethnic groups
(females); Analysis based on 26 summary traits.

Δg distance matrix:

Somali												
Galla	153											
Maasai	267	90										
Kalenjin	541	213	196									
Karimojong	284	199	116	244								
Luo	292	250	167	377	130							
Luyia	482	192	119	75	146	205						
Central Bantu	434	115	117	63	239	321	57					
Pokomo	627	280	142	224	242	280	127	146				
Mji Kenda	371	437	413	918	519	295	661	643	624			
Taita	461	230	151	228	173	134	114	171	170	477		
	SOM	GLA	MAA	KAL	KAR	LUO	LUY	CB	POK	MIJ	TAI	

Latent vectors (coordinates)

	1	2	3	4	5	6	7	8
Somali	-10.69	-10.20	-1.73	0.36	0.91	1.45	1.03	0.20
Galla	-1.35	-6.56	3.51	-0.05	1.97	0.31	-0.00	-1.38
Maasai	0.32	-0.63	1.26	3.66	0.89	-1.09	-4.10	0.46
Kalenjin	10.95	-3.91	-0.06	-2.41	-1.89	0.44	-0.05	2.82
Karimojong	0.09	-0.50	-7.43	3.59	-0.85	-3.11	1.50	0.03
Luo	-4.89	4.56	-5.80	-1.61	-1.06	3.42	-1.17	-0.27
Luyia	7.20	1.32	-1.02	-1.57	-2.50	-0.26	-0.41	-2.53
Central Bantu	6.84	-2.12	4.94	-1.77	-1.14	-0.77	0.70	-0.61
Pokomo	6.43	6.55	3.30	5.36	1.09	2.28	1.79	0.28
Mji Kenda	-17.08	5.96	4.96	-1.14	-2.12	-1.39	0.42	0.71
Taita	2.19	5.55	-1.92	-4.42	4.71	-1.29	0.29	0.29

Squared distances from centroid = Somali 228.8; Galla 69.5; Maasai 34.8;
Kalenjin 153.1; Karimojong 81.6; Luo 96.0; Luyia 71.2; Central
Bantu 82.8; Pokomo 133.4; Mji Kenda 360.3; Taita 83.1

Latent roots (percentage variance):

1=696.4(49.9); 2=229.0(21.4); 3=170.3(12.2); 4=89.9(6.5);
5= 46.4(3.3); 6= 34.4(2.5); 7= 25.6(1.8); 8=17.6(1.3); Trace = 1394.7

Table 8.3: Analysis of variance for mean ethnic group distances between and within ethnic categories for males and females.

Division	No.	Mean	SD	Max.	Min.
a) Males:					
<u>Between all Ethnic Categories</u>	38	433.3	256.9	1375	78
Within Cushites	1	68.0	-	68	68
Within Nilotes	6	298.2	153.5	440	60
Within Bantu	10	288.9	219.4	743	47

F Ratio = 1.857: P = 0.149: Between groups D.F. = 3; Within groups D.F. = 51
Bartlett-Box F = 0.967: P = 0.380

b) Females:

<u>Between all Ethnic Categories</u>	38	283.4	174.8	918	63
Within Cushites	1	153.0	-	153	153
Within Nilotes	6	205.0	96.1	377	116
Within Bantu	10	319.1	249.7	661	58

F Ratio = 0.641: P = 0.592: Between groups D.F. = 3; Within groups D.F. = 51
Bartlett-Box F = 2.476: P = 0.084

Table 8.4: T-tests for mean inter-ethnic group distances between
(0) and within (1) ethnic categories for males and females-

				Differences in variances		Pooled variance estimate		
Division	No	Mean	SD	F	Prob.	T	DF	Prob.
a) Males:								
0	38	433.4	256.9	1.76	0.223	2.21	53	0.032
1	17	279.2	193.5					
b) Females								
0	38	283.4	174.8	1.37	0.419	0.27	53	0.804
1	17	269.1	204.7					

Table 8.5: Qualitative breakdown of the distribution of inter-ethnic group distances between and within ethnic categories.

Division	No	Ag Distance Categories					
		LT 200		200-399		400 +	
		no	%	no	%	no	%
Males:							
Between Ethnic Categories	38	7	18.4	11	28.9	20	52.6
Within Ethnic Categories	17	6	35.3	6	35.3	5	29.4
Females:							
Between Ethnic Categories	38	13	34.2	16	42.1	9	23.7
Within Ethnic Categories	17	11	64.7	2	11.8	4	21.5

Males: $X^2(2 \text{ d.f.}) = 2.96; \quad p = 0.228$

Females: $X^2(2 \text{ d.f.}) = 5.81; \quad p = 0.055$

Table 8.6: Distribution of Δg distances between populations at various sample sizes.

Sample Size	Number of Distances	Mean	Sd	Se	Median	Range
LT30(M, 26)	55	917	398	49	830	2172
(F, 26)	120	806	431	40	708	2360
(M, 110)	55	1169	254	34	1145	1290
(F, 110)	120	1122	284	26	1096	1475
<u>30-49</u>						
(M, 26)	45	1119	719	107	940	3437
(F, 26)	120	533	298	27	449	1571
(M, 110)	45	1049	386	64	918	1486
(F, 110)	120	669	192	18	629	962
<u>50-59</u>						
(M, 26)		579	323	44	498	1358
(F, 26)	21	367	152	33	325	468
(M, 110)	55	646	214	29	628	765
(F, 110)	21	497	96	21	481	329
<u>60-69</u>						
(M, 26)	55	579	329	44	512	1656
(F, 26)	10	541	320	101	452	1047
(M, 110)	55	635	207	28	602	987
(F, 110)	10					
<u>70-99</u>						
(M, 26)	21	421	204	45	354	783
(F, 26)	6	223	98	40	191	257
(M, 110)	21	465	124	27	459	494
(F, 110)	6	335	67	27	303	158
<u>100+</u>						
(M, 26)		427	203	44	386	737
(F, 26)	10	770	608	192	476	1952
(M, 110)	21	346	103	23	338	399
(F, 110)	10	663	317	100	532	1071

TABLE 817 : ANALYSIS OF VARIANCE FOR MALE ETHNIC GROUP MINIMAL
POPULATION SAMPLES (NON SUMMARY AND SUMMARY ATTRIBUTES)

	CUSHITES		MAASAI		DOROBO		KALENJIN		LUGOKAR		LUIA		CENT.BANTU		COAST.BANTU	
	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P

A) NON SUMMARY DIGITAL ATTRIBUTES																
RFR1	0.45	0.773	0.94	0.392	1.07	0.175	2.89	0.009*	1.22	0.298	1.11	0.353	1.03	0.429	1.31	0.241
RFR2	0.65	0.627	0.08	0.929	0.18	0.675	2.96	0.008*	1.33	0.268	1.23	0.255	1.65	0.060	2.02	0.051
RFR3	0.70	0.590	1.75	0.176	1.20	0.277	3.56	0.002*	1.12	0.329	1.49	0.117	1.53	0.095	1.95	0.059
RFR4	0.13	0.971	0.62	0.540	0.33	0.570	1.60	0.150	1.27	0.283	2.01	0.001*	1.14	0.319	3.94	0.000*
RFR5	0.35	0.842	0.17	0.845	0.00	0.999	3.03	0.001*	0.92	0.399	2.00	0.020*	0.55	0.905	2.24	0.030*
LFR1	0.00	0.523	2.32	0.101	0.71	0.401	2.31	0.033*	2.03	0.133	0.70	0.695	1.56	0.003	1.30	0.249
LFR2	1.61	0.170	0.34	0.711	0.01	0.984	1.60	0.145	0.81	0.444	1.34	0.187	2.27	0.005*	2.76	0.000*
LFR3	1.06	0.375	0.98	0.379	0.10	0.676	1.89	0.081	2.02	0.135	2.36	0.005*	1.90	0.023*	3.09	0.003*
LFR4	0.04	0.997	0.01	0.993	0.53	0.470	2.24	0.039*	1.23	0.293	2.70	0.001*	1.60	0.054	2.61	0.012*
LFR5	0.65	0.626	0.33	0.718	0.66	0.410	2.57	0.019*	0.62	0.540	2.65	0.001*	0.93	0.531	1.36	0.220
RFU1	0.42	0.796	0.20	0.755	1.36	0.240	1.17	0.323	1.16	0.316	1.55	0.097	0.82	0.650	2.60	0.012*
RFU2	0.10	0.981	0.32	0.728	1.47	0.230	0.56	0.762	1.04	0.345	1.61	0.070	0.43	0.966	1.21	0.293
RFU3	1.12	0.325	0.26	0.706	0.13	0.721	0.95	0.459	0.47	0.627	1.47	0.125	0.79	0.679	2.45	0.018*
RFU4	1.66	0.157	2.43	0.090	3.21	0.077	1.16	0.330	0.06	0.003*	1.15	0.316	1.85	0.020*	1.59	0.136
RFU5	1.03	0.121	0.09	0.914	0.50	0.450	0.26	0.950	1.57	0.210	0.50	0.972	1.10	0.356	3.15	0.003*
LFU1	2.22	0.066	0.17	0.847	0.66	0.420	1.18	0.314	1.31	0.271	1.74	0.051	0.72	0.759	2.04	0.040*
LFU2	0.37	0.831	0.07	0.920	0.07	0.792	0.96	0.451	0.61	0.004*	0.64	0.823	0.55	0.903	2.21	0.032*
LFU3	1.09	0.360	0.21	0.814	0.00	0.907	1.55	0.160	1.43	0.240	0.07	0.505	0.86	0.590	1.60	0.112
LFU4	2.05	0.023*	1.10	0.336	0.44	0.500	1.03	0.093	2.12	0.122	1.29	0.217	1.63	0.066	0.90	0.506
LFU5	2.36	0.053	2.70	0.065	3.70	0.058	0.55	0.773	0.94	0.394	0.61	0.847	0.09	0.569	0.00	0.590
B) NON SUMMARY PALMAR ATTRIBUTES																
RAD	1.00	0.409	0.69	0.501	5.52	0.220	2.37	0.029*	0.14	0.565	2.13	0.012*	4.29	0.000*	2.16	0.036*
RBC	0.64	0.632	1.11	0.332	0.25	0.620	0.75	0.613	1.03	0.360	1.51	0.109	3.89	0.000*	1.02	0.415
RCD	0.63	0.642	2.59	0.070	0.00	0.999	1.49	0.179	2.15	0.119	2.52	0.003*	4.14	0.000*	3.24	0.002*
LAD	0.91	0.460	1.36	0.261	0.65	0.423	3.07	0.001*	0.57	0.566	2.27	0.007*	4.16	0.000*	1.45	0.182
LBC	2.30	0.057	0.09	0.915	0.55	0.461	1.43	0.202	0.03	0.960	1.29	0.215	3.20	0.000*	1.49	0.170
LCD	1.30	0.240	2.65	0.074	1.14	0.209	0.56	0.762	0.30	0.730	1.46	0.131	5.26	0.000*	2.24	0.030*
PTR	0.06	0.406	0.02	0.982	2.23	0.140	1.35	0.235	0.21	0.811	0.00	0.663	1.24	0.239	0.95	0.730
RTR	1.09	0.363	0.62	0.541	4.05	0.031*	0.46	0.836	0.20	0.753	0.96	0.405	1.02	0.430	1.05	0.392
P2R	1.22	0.301	0.24	0.707	0.25	0.621	1.93	0.074	1.77	0.172	0.40	0.968	0.95	0.499	1.34	0.231
P3R	0.30	0.877	1.13	0.324	3.44	0.060	2.78	0.012*	0.06	0.941	0.03	0.620	1.20	0.212	0.62	0.739
P3TR	0.60	0.663	0.63	0.536	0.39	0.573	2.03	0.060	0.54	0.506	1.14	0.325	1.23	0.244	0.54	0.005
P4R	0.12	0.974	0.34	0.712	3.70	0.055	0.77	0.594	0.14	0.869	0.54	0.096	2.37	0.003*	1.29	0.251
PNR	0.64	0.632	0.39	0.677	1.00	0.302	0.46	0.832	1.11	0.332	2.00	0.015*	0.62	0.847	3.06	0.004*
CHR	0.60	0.664	0.14	0.870	0.00	0.942	0.99	0.660	0.20	0.821	1.34	0.184	1.05	0.020*	2.14	0.038*
TEFR	0.97	0.421	0.25	0.777	3.94	0.051	0.07	0.517	0.01	0.992	0.00	0.577	1.13	0.322	1.07	0.384
TR	1.73	0.141	0.61	0.544	1.64	0.204	4.50	0.000*	2.65	0.072	1.33	0.190	1.73	0.045*	1.26	0.270
TIR	1.05	0.380	1.06	0.349	0.98	0.325	3.52	0.002*	2.61	0.076	0.07	0.591	1.50	0.000	1.56	0.146
TBR	0.40	0.810	0.10	0.903	0.00	0.942	1.07	0.380	0.22	0.802	1.53	0.104	1.71	0.040*	2.03	0.049*
PTL	0.39	0.818	0.10	0.836	1.75	0.109	0.98	0.439	0.22	0.805	2.05	0.016*	1.02	0.432	0.50	0.374
RTL	1.07	0.369	0.21	0.113	2.05	0.095	1.13	0.347	2.12	0.122	1.66	0.067	1.04	0.409	0.59	0.767
P2L	1.63	0.166	1.25	0.290	6.05	0.016*	0.60	0.664	0.25	0.701	0.65	0.813	1.13	0.330	1.07	0.384
P3L	1.39	0.237	1.95	0.145	0.00	0.773	1.31	0.252	0.51	0.599	1.00	0.377	1.90	0.023*	1.13	0.343
P3TL	0.56	0.689	2.01	0.063	1.67	0.201	0.41	0.869	0.11	0.895	1.30	0.200	1.30	0.156	0.86	0.542
P4L	0.33	0.853	0.04	0.432	0.42	0.520	0.21	0.975	0.29	0.747	0.90	0.357	1.11	0.344	0.74	0.641
PHL	2.00	0.094	0.02	0.983	0.27	0.607	0.63	0.710	0.63	0.531	1.25	0.239	1.74	0.043*	1.23	0.206
CHL	0.93	0.446	0.39	0.677	0.01	0.910	0.37	0.899	0.74	0.476	1.54	0.099	1.56	0.004	1.20	0.260
TEFL	0.74	0.560	0.00	0.410	2.47	0.120	1.14	0.340	0.90	0.370	1.91	0.027*	1.03	0.417	0.54	0.000
TL	0.74	0.567	0.01	0.991	1.64	0.204	2.77	0.012*	2.10	0.115	1.01	0.443	1.06	0.027*	0.97	0.455
TIL	1.26	0.203	0.30	0.742	1.00	0.320	2.55	0.020*	1.14	0.322	0.09	0.559	0.99	0.462	1.67	0.115
TBL	1.11	0.351	1.02	0.361	0.01	0.910	1.17	0.322	0.03	0.437	1.29	0.211	1.31	0.193	1.37	0.216
C) DIGITAL AND PALMAR SUMMARY ATTRIBUTES																
RTRADRC	0.17	0.955	0.73	0.404	0.04	0.830	4.20	0.000*	1.67	0.190	2.01	0.019*	1.04	0.411	2.62	0.012*
LTRADRC	0.60	0.662	0.40	0.668	0.23	0.634	3.04	0.006*	1.93	0.147	2.37	0.005*	2.06	0.012*	2.31	0.025*
RTLNRRC	1.00	0.365	0.30	0.744	2.00	0.090	1.05	0.391	3.75	0.025*	1.90	0.020*	1.04	0.412	2.45	0.010*
LTULNRRC	1.60	0.153	0.14	0.873	1.23	0.271	1.93	0.075	2.45	0.000	0.64	0.821	0.91	0.552	1.06	0.074
RTFPI	0.01	0.520	0.22	0.806	0.54	0.463	1.48	0.105	1.34	0.014*	1.71	0.056	0.82	0.642	2.35	0.023*
LTFFPI	2.10	0.000	0.70	0.459	0.41	0.524	2.19	0.043*	1.07	0.156	0.00	0.663	1.00	0.376	2.03	0.050*
RTPRC	0.60	0.666	2.63	0.075	4.42	0.039*	0.75	0.606	0.99	0.375	2.07	0.015*	7.17	0.000*	3.47	0.001*
LTPRC	1.17	0.321	2.96	0.054	0.07	0.706	1.00	0.362	0.07	0.931	1.77	0.046*	7.10	0.000*	2.74	0.000*
TDR	0.61	0.654	1.44	0.239	0.10	0.752	1.74	0.110	0.63	0.539	0.99	0.460	1.20	0.273	1.00	0.374
IDL	1.15	0.331	0.04	0.434	0.61	0.438	0.95	0.460	0.26	0.762	0.00	0.660	0.76	0.710	1.26	0.269
RTOTHI	0.75	0.559	0.40	0.671	0.03	0.856	0.07	0.510	0.02	0.977	1.70	0.044*	1.56	0.003	3.43	0.001*
LTOTHI	1.40	0.233	0.29	0.746	0.15	0.699	0.23	0.945	0.64	0.529	1.21	0.272	1.65	0.061	1.70	0.100
RTPLNI	0.16	0.960	2.24	0.109	0.72	0.634	0.04	0.434	1.02	0.315	1.00	0.446	1.63	0.064	2.11	0.041*
LTPLNI	0.35	0.841	1.74	0.179	0.94	0.467	0.75	0.472	0.00	0.375	0.09	0.567	1.25	0.230	1.73	0.100

F = F-RATIO : P = F-PROBABILITY
* = SIGNIFICANCE 0.05

TABLE 6.8 : ANALYSIS OF VARIANCE FOR FEMALE ETHNIC GROUP MINIMAL POPULATION SAMPLES (NON SUMMARY AND SUMMARY ATTRIBUTES)

ATTRIBUTE	CUSHITES		MAASAI		KALENJIN		LUO/KAR		LUIYA		CENT. BANTU		COAST BANTU	
	F	P	F	P	F	P	F	P	F	P	F	P	F	P

A) NON SUMMARY DIGITAL ATTRIBUTES :														
RFR1	1.79	0.130	0.40	0.499	2.05	0.059	1.16	0.315	1.36	0.176	0.69	0.707	1.66	0.129
RFR2	2.96	0.020*	0.10	0.755	0.79	0.577	0.53	0.591	0.83	0.630	0.19	0.999	2.85	0.010*
RFR3	2.69	0.031*	0.03	0.873	1.21	0.298	1.04	0.357	1.16	0.306	0.77	0.702	1.91	0.070
RFR4	1.11	0.350	0.30	0.536	1.41	0.210	0.28	0.752	0.80	0.660	1.89	0.367	2.63	0.016*
RFR5	0.47	0.756	1.98	0.161	1.24	0.204	1.00	0.343	1.05	0.034*	1.91	0.023*	2.03	0.062
LFR1	1.47	0.210	1.39	0.240	1.29	0.262	0.60	0.552	1.20	0.270	1.53	0.094	1.82	0.094
LFR2	5.66	0.000*	0.71	0.399	2.75	0.013*	0.02	0.970	1.00	0.454	1.00	0.446	4.10	0.001*
LFR3	1.60	0.173	0.03	0.363	1.03	0.400	0.14	0.869	1.39	0.162	0.90	0.471	2.25	0.030*
LFR4	0.40	0.807	0.46	0.501	0.35	0.910	0.60	0.550	1.14	0.324	1.92	0.022*	2.97	0.000*
LFR5	0.14	0.969	0.02	0.366	1.00	0.375	2.10	0.125	2.76	0.001*	1.53	0.095	2.40	0.027*
RFU1	1.00	0.120	0.07	0.790	0.91	0.400	0.06	0.427	1.10	0.355	1.65	0.062	4.71	0.000*
RFU2	0.24	0.914	0.60	0.411	1.47	0.109	0.00	0.925	1.17	0.301	0.72	0.757	4.12	0.001*
RFU3	0.06	0.992	0.07	0.787	0.63	0.700	0.33	0.722	0.06	0.596	0.90	0.475	3.44	0.003*
RFU4	1.37	0.245	0.60	0.440	0.26	0.955	0.52	0.594	0.75	0.713	1.21	0.261	2.00	0.011*
RFU5	1.73	0.142	0.20	0.595	0.47	0.829	0.40	0.610	1.35	0.101	1.19	0.275	0.61	0.719
LFU1	2.56	0.039*	0.00	0.983	1.40	0.203	0.10	0.902	0.07	0.590	2.10	0.007*	3.04	0.007*
LFU2	0.92	0.450	1.25	0.264	1.21	0.301	0.45	0.630	0.09	0.563	0.00	0.669	2.30	0.034*
LFU3	0.25	0.907	0.01	0.923	1.32	0.246	0.31	0.733	0.00	0.571	0.97	0.406	2.90	0.009*
LFU4	2.36	0.053	1.95	0.165	0.55	0.769	0.10	0.904	1.35	0.105	0.30	0.901	2.11	0.052
LFU5	0.73	0.571	0.14	0.707	0.96	0.449	0.36	0.700	1.49	0.117	0.56	0.096	0.32	0.925
B) NON SUMMARY PALMAR ATTRIBUTES														
RAB	2.91	0.022*	5.01	0.017*	1.41	0.211	1.67	0.191	2.57	0.002*	2.30	0.003*	3.12	0.005*
RBC	0.07	0.403	0.09	0.769	0.93	0.472	0.16	0.051	1.19	0.206	3.61	0.000*	0.51	0.797
RCD	0.50	0.734	0.60	0.439	1.22	0.297	0.12	0.000	2.21	0.009*	2.95	0.000*	1.19	0.312
LAB	1.10	0.359	3.93	0.049*	3.40	0.003*	0.90	0.409	2.40	0.004*	2.35	0.004*	1.07	0.302
LBC	1.31	0.268	0.06	0.812	1.49	0.179	0.79	0.455	1.55	0.100	2.41	0.003*	0.74	0.619
LCD	1.11	0.353	0.00	0.967	0.91	0.490	0.11	0.094	1.06	0.390	2.47	0.002*	1.70	0.119
PTR	2.01	0.093	2.04	0.093	1.41	0.211	2.10	0.115	1.06	0.391	1.02	0.433	0.93	0.471
RTR	0.04	0.502	1.56	0.213	0.70	0.503	1.95	0.145	1.70	0.045*	1.49	0.107	0.96	0.449
P2R	0.31	0.860	0.11	0.735	0.03	0.540	1.73	0.100	1.13	0.336	0.00	0.504	0.09	0.505
P3R	0.56	0.609	0.67	0.413	0.61	0.726	1.93	0.140	0.64	0.022	1.01	0.444	0.23	0.966
P3TR	1.07	0.372	0.11	0.735	1.16	0.326	0.66	0.519	1.12	0.343	1.17	0.296	1.75	0.100
P4R	0.94	0.430	0.23	0.630	0.59	0.730	0.93	0.390	0.49	0.932	1.53	0.096	1.47	0.107
PHR	2.56	0.030*	0.00	0.963	0.09	0.997	2.02	0.135	1.52	0.107	1.32	0.191	0.90	0.439
CHR	1.13	0.343	0.23	0.629	0.54	0.770	0.44	0.646	0.07	0.590	0.91	0.540	2.39	0.020*
TEFR	1.49	0.206	2.40	0.123	1.11	0.354	2.21	0.112	1.52	0.109	1.31	0.197	1.02	0.410
TR	1.97	0.099	2.52	0.114	1.60	0.125	1.54	0.216	0.43	0.950	2.71	0.001*	1.14	0.339
T1R	2.55	0.039*	5.32	0.022*	1.30	0.222	0.34	0.710	0.54	0.901	1.73	0.046*	1.07	0.300
T0R	1.00	0.409	0.02	0.070	0.50	0.750	0.22	0.000	0.59	0.597	1.04	0.407	1.95	0.073
PTL	0.56	0.695	0.66	0.417	0.74	0.619	1.70	0.100	1.01	0.437	0.56	0.099	0.94	0.464
RTL	0.54	0.700	0.52	0.470	0.62	0.714	1.26	0.207	1.52	0.107	0.79	0.676	1.93	0.075
P2L	1.16	0.326	2.23	0.137	0.00	0.990	0.67	0.515	0.07	0.507	0.62	0.051	0.35	0.909
P3L	0.52	0.720	0.33	0.564	1.20	0.265	0.27	0.762	0.70	0.602	1.02	0.430	0.76	0.604
P3TL	0.60	0.609	0.70	0.403	1.00	0.422	0.55	0.500	1.65	0.070	1.12	0.334	0.40	0.001
P4L	0.10	0.940	0.03	0.073	1.43	0.202	0.11	0.093	1.70	0.045*	1.29	0.206	0.09	0.499
PHL	4.77	0.001*	0.00	0.340	0.95	0.457	1.00	0.343	0.69	0.776	0.00	0.672	2.26	0.030*
CHL	0.49	0.746	0.01	0.909	0.40	0.879	2.55	0.001	1.13	0.336	1.14	0.316	2.10	0.045*
TEFL	0.50	0.674	0.70	0.404	0.74	0.614	1.57	0.211	1.24	0.250	0.71	0.769	1.40	0.215
TL	0.49	0.742	0.77	0.302	3.34	0.003*	1.47	0.232	0.70	0.606	3.04	0.000*	2.35	0.031*
T1L	1.44	0.220	2.75	0.099	2.71	0.014*	0.90	0.407	0.67	0.794	2.12	0.009*	1.67	0.120
T0L	0.43	0.706	0.20	0.652	0.56	0.765	1.70	0.171	0.96	0.491	1.11	0.346	1.97	0.069
C) DIGITAL AND PALMAR SUMMARY ATTRIBUTES														
RTRADRC	2.32	0.057	0.59	0.444	1.29	0.261	0.00	0.450	1.67	0.066	0.92	0.541	2.75	0.013*
LTRADRC	2.49	0.044*	0.60	0.439	1.07	0.370	0.43	0.652	1.05	0.035*	1.63	0.067	3.41	0.003*
RTULNRC	0.63	0.645	0.01	0.912	0.03	0.546	0.06	0.939	0.95	0.501	1.32	0.107	5.64	0.000*
LTULNRC	1.02	0.399	0.04	0.049	1.00	0.426	0.06	0.930	0.95	0.500	0.93	0.524	3.40	0.002*
RTFPI	1.00	0.114	0.06	0.000	0.66	0.604	0.27	0.764	0.03	0.629	0.06	0.607	4.65	0.000*
LTFFPI	2.76	0.020*	0.47	0.495	0.64	0.702	0.62	0.530	1.10	0.293	1.14	0.316	3.40	0.002*
RTPRC	2.41	0.049*	1.03	0.311	1.46	0.191	0.64	0.530	2.01	0.001*	4.16	0.000*	0.60	0.729
LTPRC	1.43	0.223	0.96	0.329	2.40	0.023*	0.50	0.562	1.96	0.023*	3.67	0.000*	0.40	0.021
T0R	0.20	0.936	0.20	0.655	0.61	0.726	1.12	0.329	0.06	0.599	0.77	0.697	0.75	0.609
T0L	0.97	0.424	1.50	0.222	0.56	0.764	0.02	0.901	0.52	0.910	0.59	0.074	0.67	0.672
RTOTHI	1.17	0.324	0.02	0.093	0.40	0.877	0.03	0.972	0.96	0.494	0.71	0.770	1.00	0.373
LTOTHI	1.39	0.237	0.06	0.012	0.10	0.996	2.34	0.099	0.01	0.645	1.16	0.305	2.39	0.020*
RTPLHI	0.04	0.500	0.04	0.047	0.55	0.760	1.47	0.232	1.11	0.353	0.55	0.906	2.43	0.026*
LTPLHI	1.57	0.103	2.26	0.134	0.07	0.520	1.02	0.361	0.00	0.657	0.44	0.963	1.73	0.113

F = F-RATIO ; P = F-PROBABILITY.

** SIGNIFICANCE 0.05

Table 8.9: Number and percentage of significant differences from analysis of variance of minimal population samples by ethnic group

Ethnic Group	Non Summary Attributes						Summary Attributes	
	Digital		Palmar		Total			
	No(20)	%	No(30)	%	No(50)	%	No(14)	%
Males:								
Cushites	1	5.0	0	0.0	1	2.0	0	0.0
Maasai	0	0.0	0	0.0	0	0.0	0	0.0
Dorobo	0	0.0	2	6.7	2	4.0	1	7.1
Kalenjin	7	35.0	6	20.0	13	26.0	3	21.4
Luo/Karimojong	2	10.0	0	0.0	2	4.0	2	14.3
Luyia	5	25.0	6	20.0	11	22.0	6	42.9
Central Bantu	3	15.0	13	43.3	16	32.0	3	21.4
Coastal Bantu	10	50.0	6	20.0	16	32.0	9	64.3
Females:								
Cushites	4	20.0	4	13.3	8	16.0	3	21.4
Maasai	0	0.0	3	10.0	3	6.0	0	0.0
Kalenjin	1	5.1	3	10.0	4	8.0	1	7.1
Luo/Kariomojong	0	0.0	0	0.0	0	0.0	0	0.0
Luyia	2	10.0	5	16.7	7	14.0	3	21.4
Central Bantu	3	15.0	10	33.3	13	26.0	2	14.3
Coastal Bantu	13	65.0	5	16.7	18	36.0	8	57.1

TABLE 8.10 PEARSON CORRELATIONS BETWEEN ETHNIC GROUPS -
(WITH MINIMAL SAMPLE POPULATIONS RECODED AS
BELONGING TO A PARTICULAR ETHNIC GROUP(1) OR NOT BELONGING TO THAT
GROUP(0)) FOR 26 SUMMARY TRAITS (MALES)

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TRAIT	POPULATION GROUP VARIABLE							
	1	2	3	4	5	6	7	8
RTRADRC	0.3	0.0	0.3	0.2	-0.1	0.1	0.1	-0.1
LTRADRC	0.4	0.0	0.3	0.2	-0.1	0.1	0.2	-0.2
RTULNRC	0.3	0.0	0.2	0.2	0.0	0.1	-0.1	0.1
LTULNRC	0.3	0.0	0.4	0.3	-0.1	-0.2	0.0	0.0
RTRC	0.3	-0.1	0.3	0.2	-0.1	0.1	0.0	0.0
LTRC	0.4	0.0	0.4	0.3	-0.1	0.1	0.1	-0.1
RTABSRC	0.3	0.0	0.3	0.2	-0.1	0.1	0.0	0.0
LTABSRC	0.4	0.0	0.4	0.3	-0.1	0.0	0.1	-0.1
RTFPI	0.3	0.0	0.2	0.2	0.0	0.0	0.0	0.0
LTfPI	0.4	0.0	0.3	0.2	0.0	-0.2	0.1	-0.1
RTPRC	-0.2	0.0	-0.1	0.1	0.1	0.3	0.3	-0.3
LTPRC	-0.1	-0.1	0.0	0.0	0.1	0.1	0.2	-0.2
TDR	-0.2	-0.2	-0.2	-0.2	0.2	0.2	-0.4	0.4
TDL	-0.2	-0.2	0.0	0.0	0.4	0.3	-0.2	0.2
RTPLMI	-0.2	-0.2	0.0	-0.2	0.2	0.0	-0.5	0.5
LTPLMI	-0.3	-0.3	0.0	-0.1	0.3	0.2	-0.3	0.3
RTOTHI	0.1	0.1	-0.1	-0.1	0.2	0.0	-0.2	0.2
LTOTHI	0.1	-0.1	0.1	0.0	0.2	-0.1	-0.3	0.3
RARCH	-0.2	0.0	-0.2	-0.1	0.1	0.0	-0.1	0.1
RULDOOP	-0.2	0.0	-0.2	-0.1	-0.1	-0.1	0.1	-0.1
RCWHORL	0.3	0.1	0.3	0.3	0.0	-0.1	0.1	-0.1
RDLOOP	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.2	0.2
LARCH	-0.3	0.1	-0.1	0.0	0.1	-0.1	-0.2	0.2
LULDOOP	-0.1	0.0	-0.2	-0.2	0.0	0.3	0.0	0.0
LCWHORL	0.4	0.2	0.3	0.3	0.0	-0.2	0.3	-0.3
LDLOOP	-0.1	-0.3	0.1	0.0	-0.1	-0.1	-0.3	0.3

TABLE 8.11 PEARSON CORRELATIONS BETWEEN ETHNIC GROUPS :-
(WITH MINIMAL SAMPLE POPULATIONS RECODED AS
BELONGING TO A PARTICULAR ETHNIC GROUP(1) OR NOT BELONGING TO THAT
GROUP(0)) FOR 26 SUMMARY TRAITS (FEMALES).

TRAIT	POPULATION GROUP VARIABLE							
	1	2	4	5	6	7	8	
RTRADRC	0.2	0.1	-0.3	0.2	-0.1	0.0	0.0	
LTRADRC	0.4	0.1	-0.1	0.1	-0.2	-0.1	0.0	
RTULNRC	0.3	0.1	-0.3	0.2	-0.1	-0.2	0.3	
LTULNRC	0.2	0.1	-0.3	0.1	-0.2	0.0	0.2	
RTRC	0.2	0.1	-0.3	0.2	0.0	-0.1	0.0	
LTRC	0.3	0.1	-0.2	0.1	-0.2	-0.1	0.1	
RTABSRC	0.3	0.1	-0.3	0.2	-0.1	-0.1	0.1	
LTABSRC	0.3	0.1	-0.2	0.1	-0.2	-0.1	0.1	
RTFPI	0.3	0.1	-0.2	0.1	-0.2	-0.1	0.2	
LTfPI	0.3	0.0	-0.1	0.0	-0.3	0.0	0.1	
RTPRC	-0.2	0.1	0.1	0.0	0.1	0.0	-0.1	
LTPRC	-0.3	0.0	0.0	0.0	0.2	0.0	-0.1	
TDR	-0.1	0.0	-0.2	0.2	0.2	-0.3	0.4	
TDL	-0.1	0.0	-0.3	0.2	0.3	-0.3	0.3	
RTPLMI	-0.2	0.0	0.0	0.1	0.2	-0.3	0.4	
LTPLMI	-0.3	-0.1	0.0	0.2	0.0	-0.2	0.4	
RTOTHI	0.1	0.1	0.1	0.2	-0.1	-0.3	0.1	
LTOTHI	0.2	0.1	-0.2	0.2	-0.1	-0.1	0.1	
RARCH	-0.2	-0.1	0.0	-0.1	0.0	0.1	0.3	
RULDOOP	-0.2	-0.1	0.3	-0.1	0.3	0.1	-0.4	
RCWHORL	0.4	0.2	-0.2	0.2	-0.1	-0.2	0.0	
RDLOOP	-0.1	-0.1	-0.3	-0.2	-0.1	0.2	0.4	
LARCH	-0.2	0.1	0.0	-0.1	-0.1	0.1	0.1	
LULDOOP	-0.2	-0.1	0.2	0.1	0.3	-0.1	-0.3	
LCWHORL	0.4	0.1	0.0	0.1	-0.3	-0.1	0.1	
LDLOOP	0.0	0.0	-0.3	-0.2	-0.1	0.3	0.2	

GROUP CODES :-

(1) CUSHITES (2) MAASAI (3) DOROBO (NO FEMALE SAMPLE) (4) KALENJIIN
(5) LUG AND KARIMOJONG NILETES (6) LUYIA BANTU (7) CENTRAL BANTU
(8) COASTAL BANTU(POKOMU, MUI KENDA AND TAITA)

Table 9.1: Altitude and rainfall zone values and details for
minimal ethnic population samples

Sample	Altitude	Rainfall	Sample	Altitude	Rainfall
Somali	1	1	Bukhayo	3	4
Rendille	2	1	Samia	3	4
Gabbra	2	1	Butsotso	3	4
Boran	2	1	Bunyala	3	4
Burji	3	2	Kabras	3	4
Samburu	2	2	Bukusu	4	4
Kadjiado Maasai	3	2	Kiambu Kikuyu	4	4
Narok Maasai*	3	2	Muranga Kikuyu	3	4
Ngwesi*	4	2	Nyeri Kikuyu	4	4
Mukogodo*	4	2	Ndia	4	4
Kony	4	4	Kamba	3	2
Nandi	4	4	Embu	3	4
Kipsigis	4	4	Mbere	3	2
Tugen	4	3	Chuka	3	4
Keyo	4	3	Muthambe	3	4
Marakwet	4	3	Mwimbi	3	4
Pokot	4	3	Igoji	3	4
Iteso	3	4	Imenti	3	3
Turkana	2	1	Tigania	3	3
Luo	3	3	Igembe	3	3
Gusii	3	4	Tharaka	3	3
Tiriki	3	4	Pokomo	1	1
Maragoli	3	4	Malakote *	1	1
Bunyore	3	4	Giriana	1	3
Idakho	3	4	Chonyi	1	3
Marama	3	4	Mid Mji Kenda	1	3
Wanga	3	4	Digo	1	3
Marach	3	4	Taita	3	3
			Taveta	2	2

* = No female sample.

Zone details and sample sizes:

Zone No.	Nature	No of individuals for pooled samples in zone	
		Males	Females
ALTITUDE:			
1	up to 1000ft.	670	372
2	1000 up to 3000ft.	574	352
3	3000 up to 5500ft.	1617	1414
4	5500ft. or more	664	509
RAINFALL:			
1	0 up to 20 inches	753	405
2	20 up to 35 inches	585	455
3	35 up to 50 inches	960	701
4	50 inches or more.	1227	1086

Table 9.2: Significant Pearson's correlations for summary taxonomic attributes with altitude; and partial correlations for summary taxonomic attributes with rainfall: controlling for altitude.

ALTITUDE

	MALES			FEMALES	
	r	s		r	s
LDLOOP	-.35	.004	RULOOP	.27	.026
RTULNRC	-.30	.011	RTULNRC	-.24	.042
RULOOP	.29	.013			
RTABSRC	-.25	.029			
			TDL	-.30	.015
TDR	-.34	.015	TDR	-.26	.030
			LTPLMI	-.25	.037
RTPLMI	-.29	.015			
RTPRC	.28	.018			
LTOTHI	-.28	.017			

RAINFALL

LCWHORL	-.47	.001	LTRADRC	-.39	.004
			LTRC	-.38	.006
LTABSRC	-.38	.004	LTABSRC	-.36	.009
RCWHORL	-.38	.004	LCWHORL	-.32	.022
LTRADRC	-.34	.011	RTRADRC	-.31	.023
LTRC	-.32	.016			
			RTRC	-.29	.036
LTFPI	-.29	.031	RTABSRC	-.29	.035
LTULNRC	-.28	.040	RTFPI	-.29	.032
			RCWHORL	-.28	.040
LTPLMI	.38	.004			
TDR	.32	.016			
TDL	.29	.028			

Table 9.3: Significant Pearson's correlations for taxonomic non-summary attributes with altitude.

MALES			FEMALES		
A. DIGITAL ATTRIBUTES			A.		
	r	s		r	s
RFU1	-.43	.001	LFR4	-.50	.001
LFU1	-.42	.001			
LD1	-.42	.001	RFR4	-.49	.001
ULOOPR1	.40	.001	LFU1	-.49	.001
			ULOOPR3	.46	.001
RD1	-.37	.002	ULOOPR1	.45	.001
ULOOPL1	.36	.003	ULOOPR2	.45	.001
DLOOPL1	-.34	.004	LFR3	-.44	.001
RFR4	-.30	.011	ULOOPL1	.44	.001
			RFU2	-.42	.001
RFR5	-.28	.019	RFU3	-.42	.001
DLOOPR1	-.27	.020	RD1	-.42	.001
WHORLL4	.26	.028	RFU1	-.40	.001
DLOOPL2	-.26	.025			
WHORLR1	-.25	.031	LFU2	-.36	.004
DLOOPL4	-.24	.034	ULOOPL2	.35	.006
			WHORLL2	-.34	.007
			DLOOPL3	-.33	.008
			RFR5	-.32	.009
			RD4	-.32	.009
			WHORLR1	-.32	.010
			DLOOPR4	-.32	.010
			DLOOPL2	-.32	.010
			RFU4	-.31	.011
			LD1	-.31	.011
			LFR5	-.30	.015
			LD2	-.30	.015
			RADLL1	-.30	.014
			RFR3	-.29	.018
			WHORLL1	-.29	.016
			DLOOPR1	-.29	.018
			RD3	-.28	.021
			ULOOPR4	.27	.026
			RADLR4	.27	.026
			DLOOPR2	-.27	.026
			LFU3	-.26	.032
			ULOOPL3	.26	.033
			WHORLR4	-.25	.036
			DLOOPR3	-.24	.043
			RD2	-.23	.046
			DLOOPL4	-.23	.046
			B.		
			TDR6	-.32	.010
			P4R	-.28	.022
			TDR3	.25	.036
B. PALMAR ATTRIBUTES:					
TDR4	.35	.004			
TDR6	-.34	.005			
P4R	-.33	.006			
TDL6	-.33	.006			
CHL	-.32	.008			
RCD	.29	.016			
P2L	-.28	.018			
LAB	-.27	.021			
RAB	.24	.037			
P2R	-.24	.038			
TDL4	-.23	.043			
TDR5	-.23	.046			

Table 9.4: Significant partial correlations for taxonomic non-summary attributes with rainfall: controlling for altitude.

MALES			FEMALES		
A. DIGITAL ATTRIBUTES			A.		
	Pr	s		Pr	s
RADLL2	-.48	.0001	RFR2	-.41	.001
RFR2	-.46	.001			
RFU5	-.46	.001	RADLL1	.37	.004
WHORLR5	-.46	.001	LFR1	-.36	.005
LFR1	-.44	.001	WHORLR4	-.36	.005
LFU5	-.42	.001	ULOOPR2	-.34	.007
			WHORLL1	-.34	.007
LFR2	-.39	.003	RFR1	-.33	.008
WHORLL5	-.39	.003	DLOOPR1	.32	.010
LFU3	-.38	.003	DLOOPL1	.31	.012
RADLR2	-.38	.003	RFU4	-.30	.015
WHORLR4	-.38	.004			
WHORLL3	-.37	.006	ULOOPR4	.29	.020
RFU4	-.34	.010	DLOOPR2	.28	.023
ARCHL1	.34	.010	ULOOPL4	.27	.026
ULOOPL5	.34	.011	LFR5	-.26	.032
WHORLL2	.33	.012	RD4	-.24	.041
RD5	-.32	.017	ARCHR1	.24	.038
ULOOPR4	.32	.017	RADLL2	.24	.042
WHORLR2	-.32	.017	LFR2	-.23	.049
WHORLL4	-.30	.027	LFU5	-.23	.049
			WHORLL3	-.23	.049
ULOOPL3	-.28	.038			
RD4	-.27	.045			
WHORLL1	-.27	.044			
B. PALMAR ATTRIBUTES			B.		
RBC	.44	.001	LBC	.40	.002
TDR4	-.42	.001			
P2R	.41	.002	RBC	.39	.002
TDL4	-.41	.002			
			TEFL	.29	.019
P2L	.37	.006	TDL4	-.29	.019
LBC	.35	.008	P4R	.28	.021
TEFL	.35	.008	CHL	-.28	.024
TDL5	-.34	.011	TDL5	.26	.030
TDR6	-.32	.017	P3TR	-.24	.043
			P4L	.24	.042
CHR	-.29	.031			

Table 9.5: Analysis of variance of summary taxonomic attributes with altitude: displaying altitude zone means. (Only attributes that correlate significantly with altitude are included).

MALES

Zone	LDLOOP	RTULNRC	RULLOOP	RTABSRC	TDR	RTPLMI	RTPRC	LTOTHI
1	13.3	21.4	60.6	82.3	4.406	5.856	95.2	1.269
2	9.0	19.5	60.0	80.0	4.293	5.726	96.7	1.256
3	10.1	18.2	64.7	77.2	4.326	5.730	98.4	1.223
4	8.5	17.5	64.6	76.0	4.249	5.667	98.0	1.198
F.Ratio	4.23	1.94	2.55	1.27	3.48	1.93	2.20	1.55
F.Prob.	.009	.13	.065	.295	.022	.136	.099	.21

FEMALES

Zone	RULLOOP	RTULNRC	TDR	TDL	LTPLMI
1	63.0	17.4	4.293	4.259	5.955
2	67.1	16.5	4.196	4.197	5.683
3	70.7	13.8	4.253	4.230	5.795
4	72.6	11.6	4.177	4.170	5.776
F.Ratio	7.68	5.77	3.33	1.979	2.41
F.Prob.	.000	.002	.027	.129	.078

Table 9.6: Analysis of variance of summary taxonomic attributes with rainfall: displaying rainfall zones means. (Only attributes that correlate significantly with rainfall are included)

MALES

Zone	LCWHORL	LTABSRC	RCWHORL	TRADRC	LTRC	LTFPI	TULNRC	LTPLMI	TDR	TDL
1	17.4	77.1	21.5	57.8	60.4	6.306	19.1	5.817	4.299	4.272
2	18.3	77.7	19.5	56.9	59.8	6.358	20.7	5.844	4.297	4.278
3	14.9	70.5	16.9	53.3	56.4	6.172	17.6	5.951	4.327	4.323
4	14.1	70.6	16.0	53.6	56.5	6.100	17.1	5.955	4.321	4.310
F.Ratio	2.88	3.79	3.84	2.57	2.28	2.15	3.17	1.34	.191	.622
F.Prob.	.045	.016	.015	.064	.090	.106	.032	.271	.902	.604

FEMALES

Zone	LTRADRC	LTRC	LTABSRC	LCWHORL	RTRADRC	RTRC	RTFPI	RCWHORL	LTABSRC
1	53.8	56.9	73.0	18.6	59.6	61.7	6.185	16.77	76.3
2	50.9	54.6	70.1	15.3	56.8	58.6	6.109	14.03	72.0
3	48.3	51.8	66.0	15.0	55.0	56.5	5.975	11.7	68.4
4	47.9	51.3	64.5	14.0	54.9	56.8	5.913	12.4	68.5
F.Ratio	3.46	3.34	2.76	2.07	2.63	.63	1.89	2.62	2.42
F.Prob.	.023	.027	.052	.117	.061	.061	.143	.062	.077

Table 9.7: Analysis of variance of non-summary taxonomic attributes with altitude: displaying altitude zone means. (Only attributes that correlate significantly with altitude are included) - (MALES)

A: DIGITAL ATTRIBUTES

Zone	RFU1	LFU1	LD1	ULOOPR1	RD1	ULOOPLI	DLOOPLI	RFR4	RFR5	DLOOPR1	WHORLL4	DLOOPL2
1	7.2	6.7	1.394	44.6	1.443	47.1	31.3	14.1	12.1	25.5	23.7	14.0
2	6.7	5.7	1.359	44.2	1.432	49.8	22.6	13.4	11.9	25.8	25.6	10.5
3	6.2	5.2	1.306	50.7	1.385	54.6	24.9	13.5	11.6	24.1	25.0	10.5
4	5.0	4.4	1.242	56.5	1.330	59.6	19.2	12.8	11.3	19.4	31.5	9.6
F.Ratio	4.56	3.81	3.95	3.88	3.113	2.64	3.53	2.43	1.49	2.09	2.28	1.67
F.Prob.	.006	.015	.013	.014	.034	.059	.021	.076	.228	.112	.091	.186

Zone	WHORLRI	DLOOPL4
1	22.3	9.2
2	22.1	5.0
3	17.9	6.8
4	17.1	4.8
F.Ratio	1.39	2.40
F.Prob	.256	.078

B: PALMAR ATTRIBUTES

Zone	TDR4	TDR6	P4R	TDL6	CHI	RCD	P21	LAR	RAB	P2R	TDL4	TDR5
1	61.1	8.6	73.1	6.8	21.2	34.9	9.2	36.1	35.4	14.5	63.3	27.1
2	73.2	4.8	66.6	4.1	20.2	35.3	5.0	37.3	36.6	10.1	72.1	20.0
3	68.3	6.2	65.6	5.3	15.8	36.1	8.4	37.2	36.6	12.7	64.1	22.6
4	73.2	3.2	62.1	2.3	15.1	36.0	3.8	37.4	36.6	9.1	72.8	20.6
F.Ratio	5.57	4.0	2.37	3.97	2.34	2.18	6.75	2.09	1.89	2.76	7.27	2.14
F.Prob.	.002	.012	.081	.013	.084	.101	.001	.112	.142	.051	.000	.106

Table 9.8: Analysis of variance of non-summary taxonomic attributes with altitude: displaying altitude zone means. (Only attributes that correlate significantly with altitude are included) - (FEMALES)

A: DIGITAL ATTRIBUTES

Zone	LFR4	RFR4	LFU1	ULOOPR3	ULOOPR1	ULOOPR2	LFR3	ULOOPL1	RFU2	RFU3	RD1	RFU1
1	12.8	13.8	6.6	74.1	45.7	49.7	9.8	40.2	4.8	2.1	1.366	5.9
2	12.3	13.1	6.0	79.0	51.9	59.7	9.7	49.6	4.2	1.9	1.399	5.5
3	11.5	12.9	5.5	82.2	56.3	59.2	8.7	50.1	3.8	1.4	1.320	5.0
4	11.0	11.8	3.7	84.2	61.0	66.1	8.5	57.5	3.1	1.1	1.211	3.9
F.Ratio	5.65	6.18	6.80	4.56	4.17	5.33	4.50	4.62	3.69	3.70	5.24	3.65
F.Prob.	.002	.001	.001	.007	.010	.003	.007	.006	.018	.018	.003	.019

Zone	LFU2	ULOOPL2	WHORLL2	DLOOPL2	RFR5	RD4	WHORL1	DLOOPR4	DLOOPL2	RFU4	LD1
1	5.7	43.7	21.8	5.5	11.3	1.359	16.9	6.5	12.3	3.9	1.335
2	5.1	48.3	22.2	6.2	11.6	1.366	20.4	6.3	7.9	4.1	1.362
3	4.8	47.7	18.0	3.4	10.9	1.278	13.0	3.8	8.5	3.1	1.306
4	4.2	54.1	15.0	2.5	10.4	1.290	11.7	3.4	5.9	3.2	1.215
F.Ratio	2.63	3.27	2.35	2.57	2.47	3.47	3.22	2.31	2.51	3.26	2.72
F.Prob	.060	.029	.084	.065	.073	.023	.031	.088	.070	.029	.054

Zone	LFR5	LD2	RADLL1	RFR3	WHORLL1	DLOOPR1	RD3	ULOOPR4	RADLR4	DLOOPR2	LFU3
1	10.3	1.288	3.9	10.4	14.8	26.7	1.117	59.1	.68	12.7	2.8
2	11.0	1.272	1.3	10.5	17.5	20.9	1.105	58.7	.00	7.1	3.0
3	10.1	1.222	2.1	10.0	11.3	23.9	1.058	66.8	.51	8.7	2.2
4	9.5	1.185	0.4	9.7	11.1	17.1	1.063	63.6	1.52	6.7	2.3
F.Ratio	3.06	1.64	2.81	1.74	3.02	3.49	2.05	3.70	3.79	2.52	2.13
F.Prob.	.037	.193	.049	.172	.038	.023	.119	.018	.016	.069	.108

Table 9.8: (CONTINUED)

A: DIGITAL ATTRIBUTES (continued)

Zone	ULOOPL3	WHORLR4	DLOOPR3	RD2	DLOOPL4
1	67.3	22.6	6.5	1.257	7.0
2	67.2	28.2	3.3	1.254	5.0
3	71.7	19.4	2.7	1.225	4.9
4	72.3	19.5	3.1	1.186	3.2
F.Ratio	1.45	3.12	1.81	1.06	1.10
F.Prob.	.240	.034	.157	.374	.357

B: PALMAR ATTRIBUTES

Zone	TDR6	P4R	TDR3
1	5.7	79.5	1.3
2	3.5	73.9	3.0
3	3.6	75.9	3.1
4	1.8	69.7	4.0
F.Ratio	2.24	2.51	1.23
F.Prob.	.095	.040	.309

Table 9.9: Analysis of variance of non summary taxonomic attributes with rainfall: displaying rainfall zone means. (Only attributes that correlate significantly with rainfall are included) - (MALES)

A: DIGITAL ATTRIBUTES

Zone	RADLL2	RFR2	RFU5	WHORLR5	LFR1	LFU5	LFR2	WHORLL	LFU3	RADLR2	WHORLR4	WHORLL3
1	6.9	10.0	1.6	9.7	13.9	1.4	8.8	7.6	2.8	3.8	15.0	15.0
2	7.4	9.9	1.4	8.5	13.5	1.7	8.9	9.7	3.1	5.9	33.4	15.3
3	10.3	9.0	0.9	6.1	12.4	1.0	7.8	6.0	2.4	5.8	30.1	13.3
4	12.8	8.9	1.0	4.9	12.5	1.0	7.9	5.5	2.3	7.8	26.4	11.4
F.Ratio	4.99	3.87	5.80	4.40	4.14	4.94	3.51	2.98	2.68	2.23	2.55	1.89
F.Prob.	.004	.014	.002	.008	.010	.004	.021	.039	.056	.096	.065	.143

Zone	RFU4	ARCHL1	ULOOPL5	WHORLL2	RD5	ULOOPR4	WHORLR2	WHORLL4	ULOOPL3	RD4	WHORLL1
1	5.3	4.1	82.7	20.9	1.179	48.6	25.6	26.5	69.9	1.472	16.1
2	5.0	6.8	79.7	20.3	1.161	53.4	21.9	29.9	69.6	1.423	16.2
3	4.5	6.6	86.1	17.1	1.138	55.1	20.0	25.5	73.9	1.412	12.6
4	4.3	8.3	85.5	16.8	1.129	56.8	19.9	25.5	72.4	1.392	11.4
F.Ratio	2.17	3.01	3.29	1.08	2.17	1.95	2.19	.72	1.09	1.56	1.77
F.Prob.	.103	.038	.028	.365	.102	.134	.101	.547	.361	.209	.164

B: PALMAR ATTRIBUTES

Zone	RBC	TDR4	P2R	TDL4	P2L	LBC	TEFL	TDL5	TDR6	CHR
1	25.6	71.6	9.0	70.4	5.9	26.1	27.6	21.0	4.5	28.5
2	25.7	70.8	10.9	69.0	5.5	25.6	34.1	23.4	5.1	25.2
3	26.2	68.7	12.4	66.3	8.3	26.4	41.1	23.3	6.8	22.3
4	26.9	68.1	12.5	65.6	7.4	26.8	42.0	26.0	5.6	21.5
F.Ratio	4.42	.54	1.08	1.02	1.19	2.96	2.33	1.54	.647	2.21
F.Prob.	.008	.660	.367	.391	.323	.041	.085	.215	.588	.098

Table 9.10: Analysis of variance of non summary taxonomic attributes with rainfall: displaying rainfall zone means. (Only attributes that correlate significantly with rainfall are included) - (FEMALES)

A: DIGITAL ATTRIBUTES

Zone	RF 2	RADLL1	LFR1	WHORLR4	ULOOPR2	WHORLL1	RFR1	DLOOPR1	DLOOPL1	RFU4	ULOOPR4
1	9.9	1.2	12.5	29.2	10.8	18.9	14.3	17.7	20.6	4.3	58.6
2	9.2	1.2	11.8	23.7	7.8	15.8	13.5	24.6	25.2	3.6	61.9
3	8.8	2.4	10.7	20.1	8.0	10.4	12.8	24.4	26.0	3.4	62.3
4	8.7	2.0	11.0	18.8	8.0	11.1	13.0	22.2	25.3	3.0	67.1
F.Ratio	3.70	.510	3.40	4.05	3.25	5.46	2.69	1.44	.594	3.60	3.05
F.Prob.	.018	.677	.025	.012	.030	.003	.056	.242	.622	.020	.037

B: PALMAR ATTRIBUTES

Zone	DLOOPR2	ULOOPL4	LFR5	RD4	ARCHR1	RADLL2	LFR2	LFU5	WHORLL3
1	7.4	57.0	11.2	1.375	4.7	8.5	8.2	1.22	17.3
2	8.2	56.8	10.7	1.316	4.4	9.0	7.6	1.20	12.3
3	9.4	57.3	9.6	1.316	5.8	10.7	6.9	1.16	12.4
4	8.5	61.0	9.9	1.272	7.2	11.8	7.0	1.01	11.4
F.Ratio	.278	0.89	4.60	2.99	1.35	.999	2.48	0.61	2.22
F.Prob.	.241	.453	.007	.040	.270	.401	.072	.613	.098

B: PALMAR ATTRIBUTES

Zone	LBC	RBC	TEFL	TDL4	P4R	CHL	TDL5	P3TR	P4L
1	25.8	25.3	21.6	75.0	75.0	24.0	19.7	5.0	88.1
2	27.0	26.7	25.8	73.7	71.7	17.6	17.8	8.1	88.4
3	26.9	26.4	42.8	72.9	76.1	19.3	21.3	5.2	91.8
4	27.0	26.5	31.6	70.7	75.1	17.0	21.5	4.6	91.7
F.Ratio	1.92	1.94	5.0	0.82	0.46	1.78	0.90	1.72	0.42
F.Prob.	.139	.135	.004	.487	.713	.164	.448	.175	.740

F I G U R E S

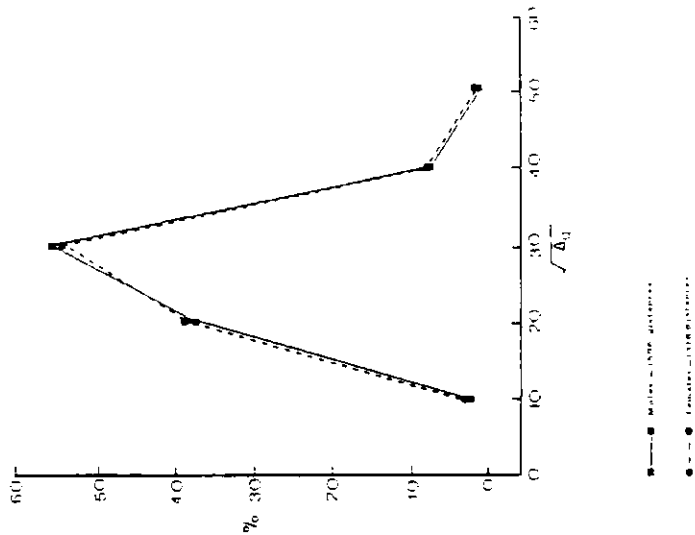


Figure 6.1 : Distribution of the $5050/\sqrt{g}$ distances between 101 populations of sub-Saharan Africa. (Hennaux 1972 : Figure 2)

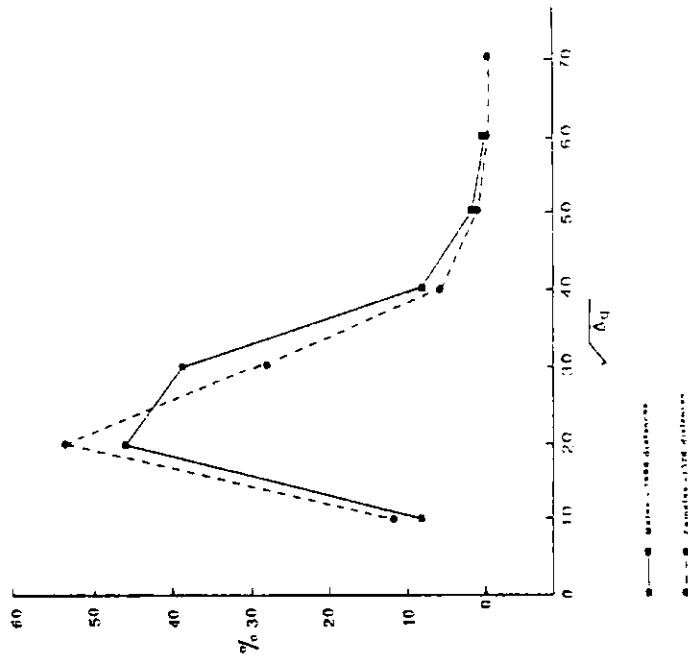


Figure 6.2 : Distribution of Δv distances between 57 male and 53 female Kenyan minimal ethnic population samples; based on 26 summary traits.

Figure 6.3 : Distribution of $\sqrt{\Delta g}$ distances between 57 male and 53 female Kenyan minimal ethnic population samples; based on 110 non summary traits.

FIG. 6.4 : PCO ANALYSIS OF KENYAN MINIMAL SAMPLES (MALES)
 SAMPLE DISTANCES FROM CENTROID IN DELTA G UNITS
 ANALYSIS BASED ON TWENTY SIX SUMMARY VARIABLES

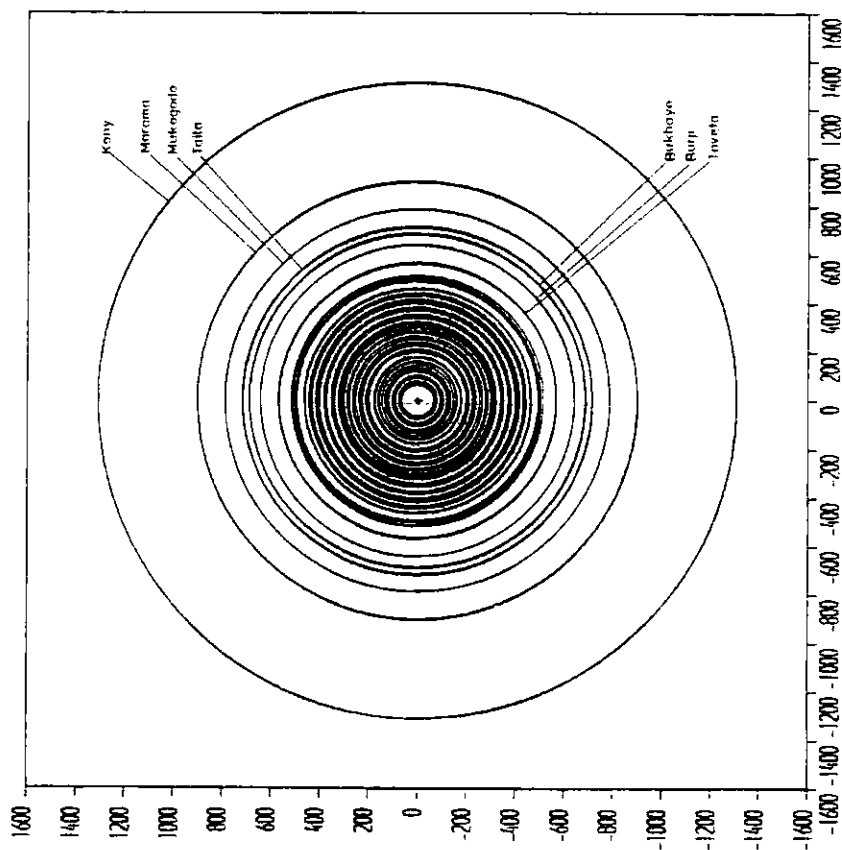


FIG. 6.5 : PCO ANALYSIS OF KENYAN MINIMAL SAMPLES (FEMALES)
 SAMPLE DISTANCES FROM CENTROID IN DELTA G UNITS
 ANALYSIS BASED ON TWENTY SIX SUMMARY VARIABLES

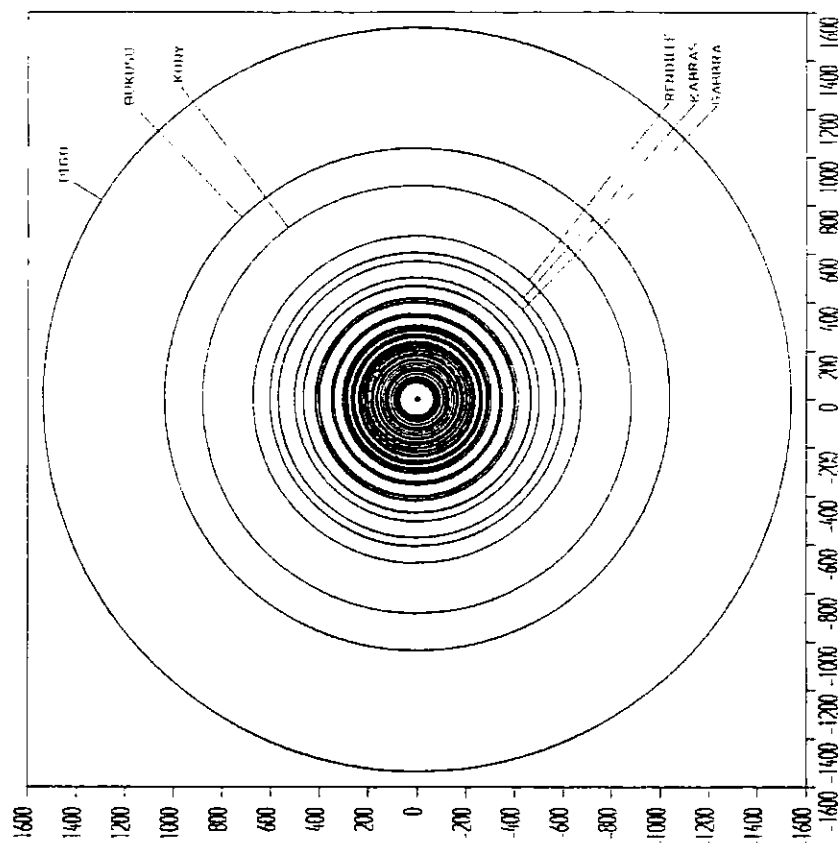


Fig 6.8: Distribution of eleven principal components:
Total sample (males & females)

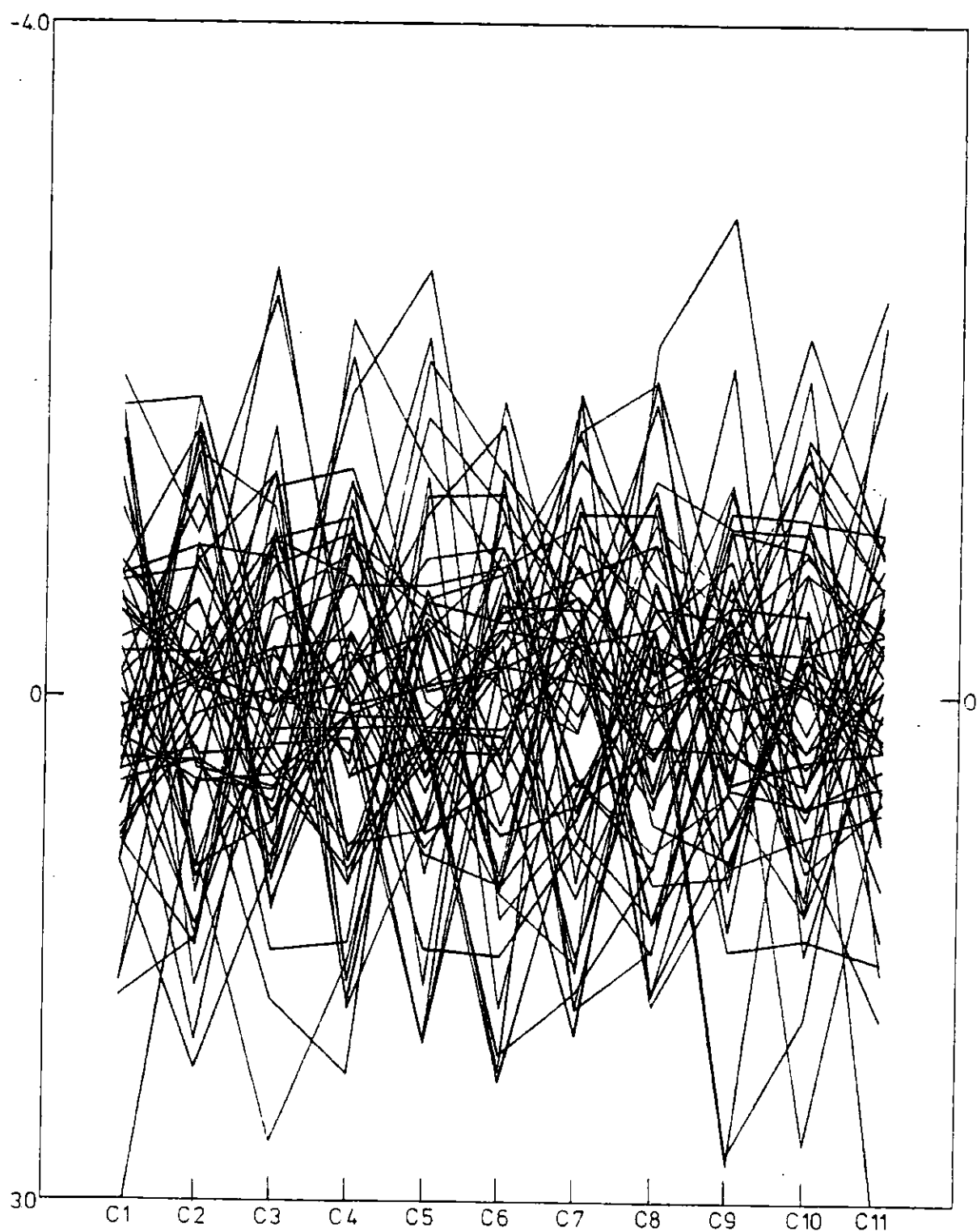


Fig 6.10 : Distribution of six principal components
Total sample (females)

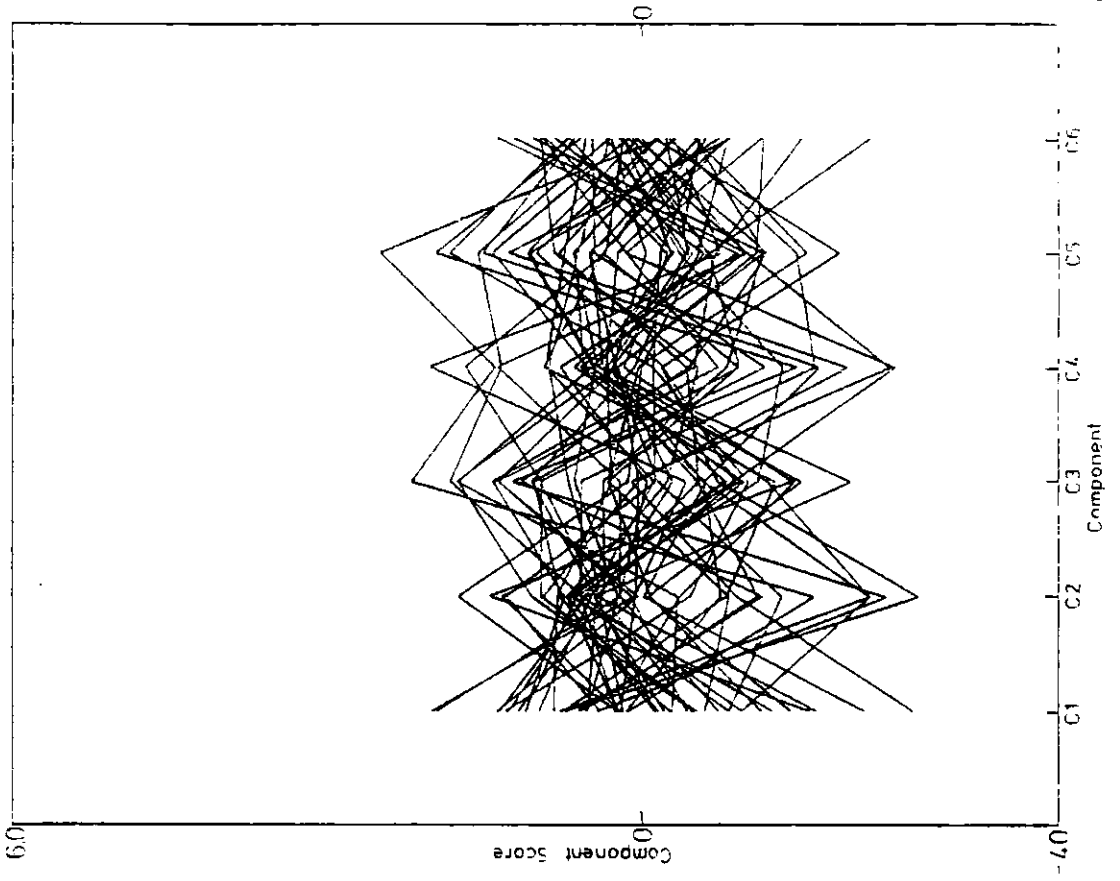


Fig 6.9 : Distribution of six principal components
Total sample (males)

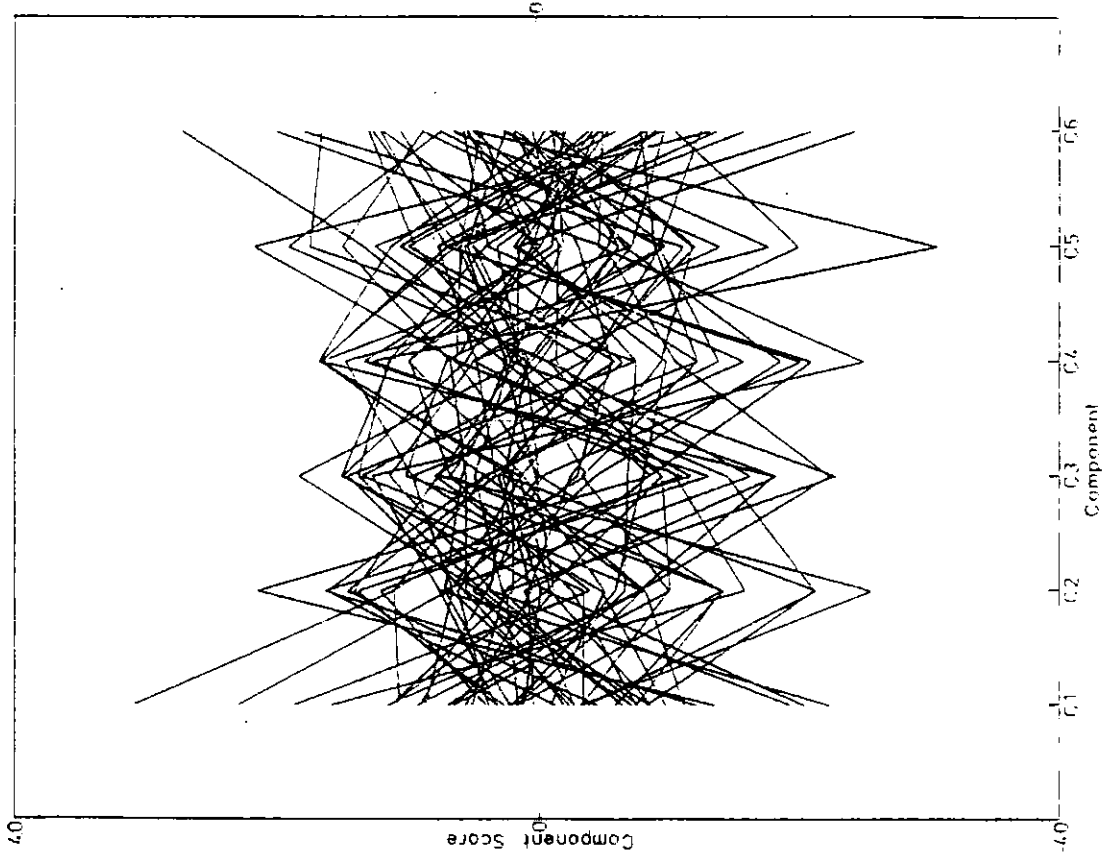


Fig 6:11 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples:(males)-26 summary variables.

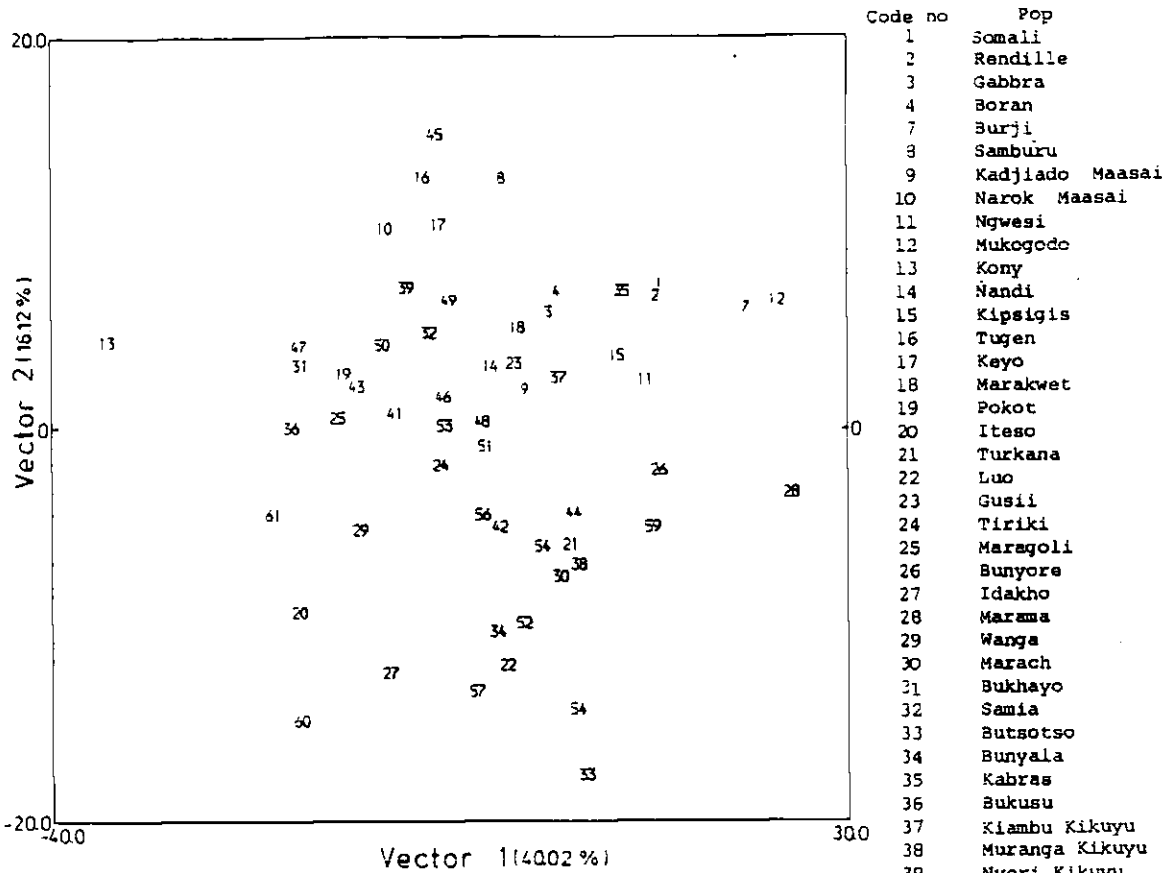


Fig 6:12 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples:(males)- 26 summary variables.

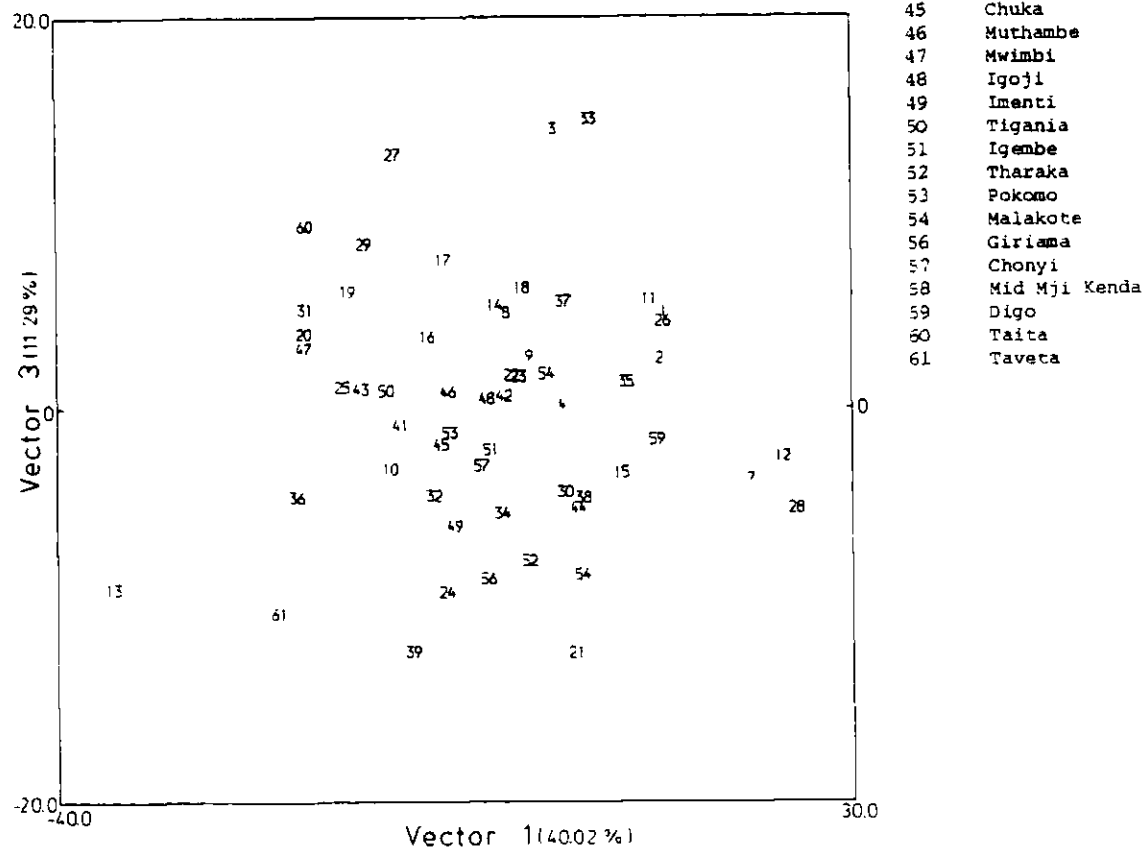
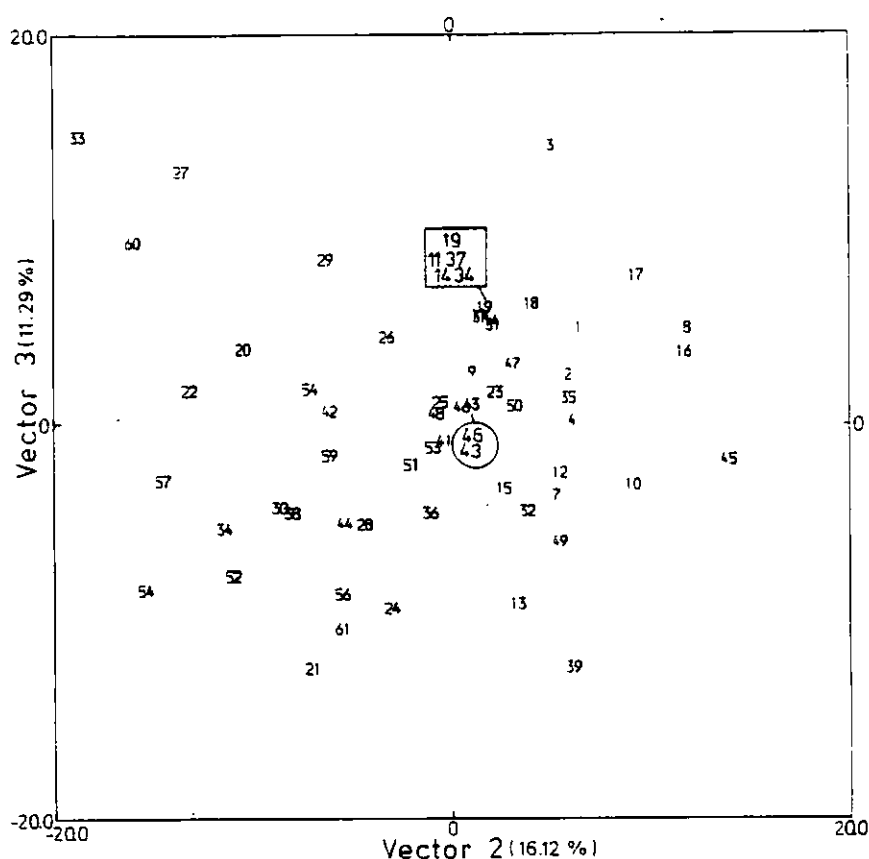


Fig 6:13 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (males) - 26 summary variables.



Code no	Pop
1	Somali
2	Rendille
3	Gabbra
4	Boran
7	Burji
8	Samburu
9	Kadjiado Maasai
10	Narok Maasai
11	Ngwesi
12	Mukogodo
13	Kony
14	Nandi
15	Kipsigis
16	Tugen
17	Keyo
18	Marakwet
19	Pokot
20	Iteso
21	Turkana
22	Luo
23	Gusii
24	Tiriki
25	Maragoli
26	Bunyore
27	Idakho
28	Marama
29	Wanga
30	Marach
31	Bukhaya
32	Samia
33	Butsotso
34	Bunyala
35	Kabras
36	Bukusu
37	Kiambu Kikuyu
38	Muranga Kikuyu
39	Nyeri Kikuyu
41	Ndia
42	Kamba
43	Embu
44	Mbere
45	Chuka
46	Muthambe
47	Mwimbi
48	Igoji
49	Imenti
50	Tigania
51	Igembe
52	Tharaka
53	Pokomo
54	Malakote
56	Giriama
57	Chonyi
58	Mid Mji Kenda
59	Digo
60	Taita
61	Taveta

Fig 6:14 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (females) - 26 Summary variables.

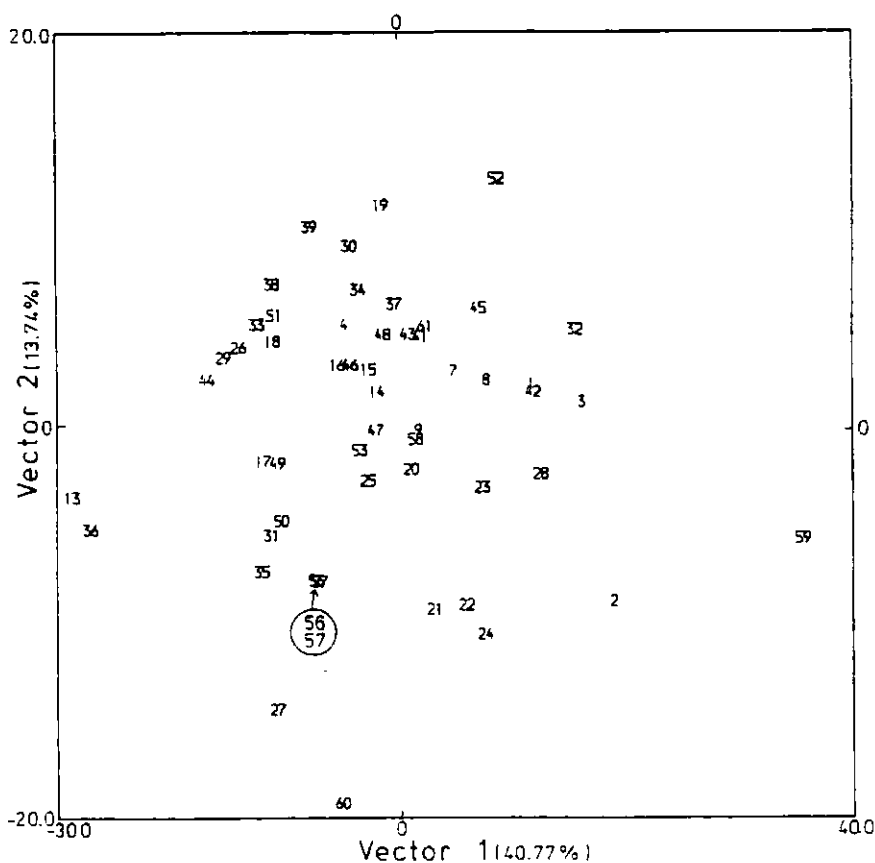
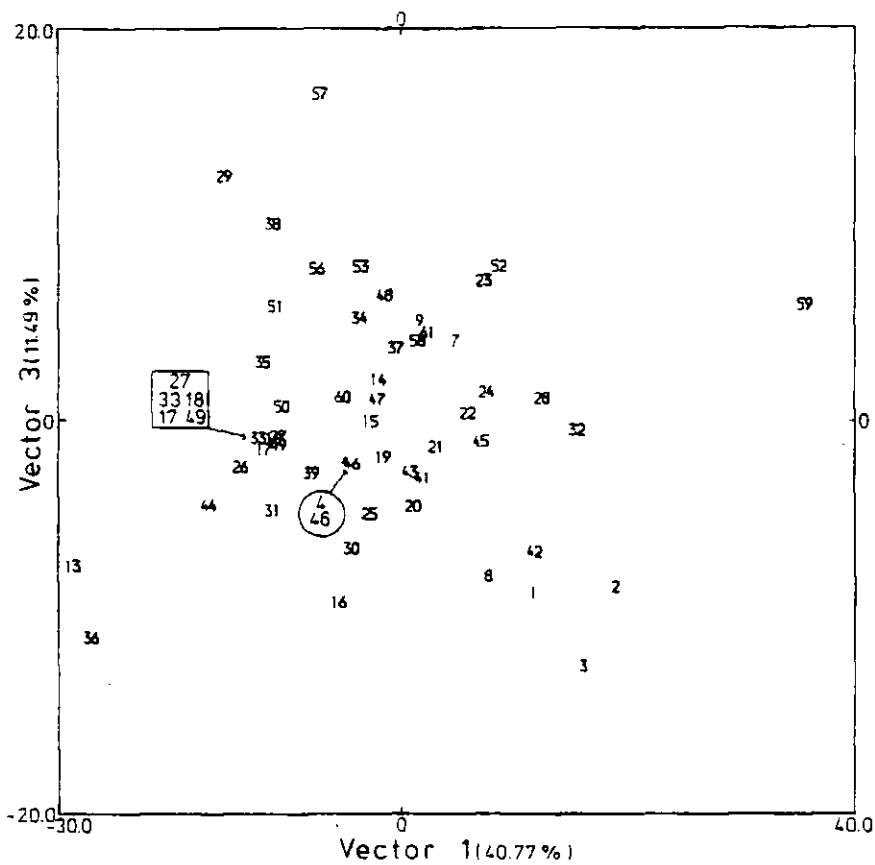


Fig 6:15 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples: (females)- 26 summary variables.



Code no	Pop
1	Somali
2	Rendille
3	Gabbra
4	Boran
7	Burji
8	Samburu
9	Kadjiado Maasai
10	Narok Maasai
11	Ngwesi
12	Mukogodo
13	Kony
14	Nandi
15	Kipsigis
16	Tugen
17	Keyo
18	Marakwet
19	Pokot
20	Itaso
21	Turkana
22	Luo
23	Gusii
24	Tiriki
25	Maragoli
26	Bunyore
27	Idakho
28	Marama
29	Wanga
30	Marach
31	Bukhaya
32	Samia
33	Butsotso
34	Bunyala
35	Kabrus
36	Bukusu
37	Kiambu Kikuyu
38	Muranga Kikuyu
39	Nyeri Kikuyu
41	Ndia
42	Kamba
43	Embu
44	Mbere
45	Chuka
46	Muthambe
47	Mwimbi
48	Igoji
49	Imenti
50	Tigania
51	Igembe
52	Tharaka
53	Pokomo
54	Malakote
56	Giriama
57	Chonyi
58	Mid Mji Kenda
59	Digo
60	Taita
61	Taveta

Fig 6:16 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples: (females)- 26 summary variables.

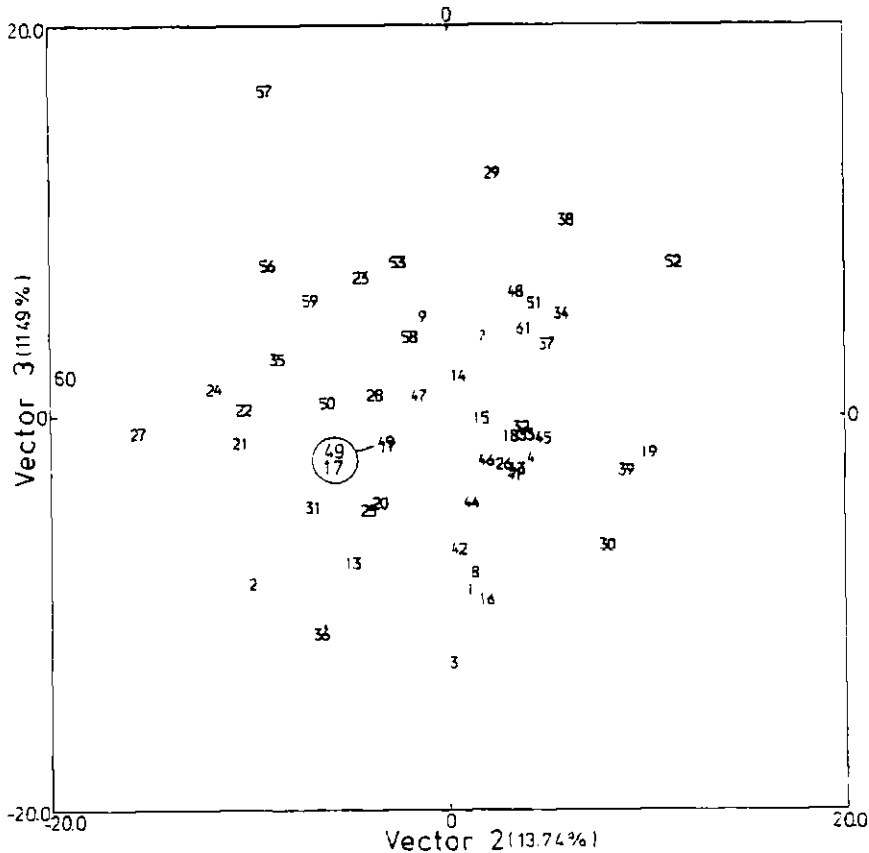
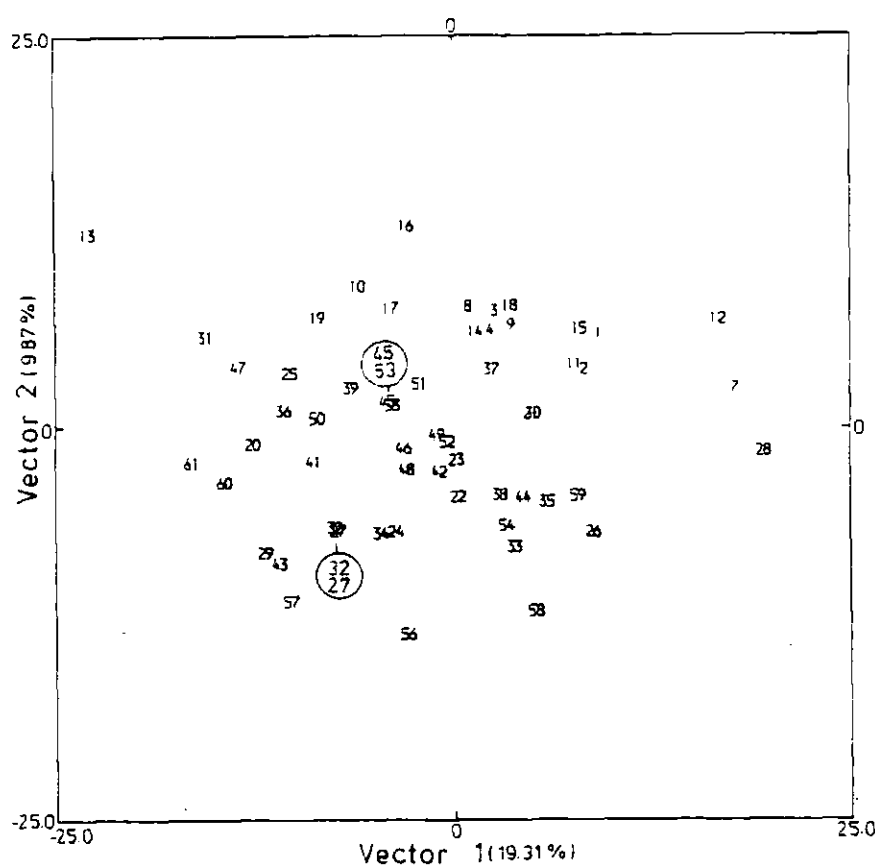


Fig 6:17 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (males) - 110 variables



Code no	Pop
1	Somali
2	Rendille
3	Gabbra
4	Boran
7	Burji
8	Samburu
9	Kadjiado Maasai
10	Narok Maasai
11	Ngwesi
12	Mukogodo
13	Kony
14	Nandi
15	Kipsigis
16	Tugen
17	Keyo
18	Marakwet
19	Pokot
20	Iteso
21	Turkana
22	Luo
23	Gusii
24	Tiriki
25	Maragoli
26	Bunyore
27	Idakho
28	Marama
29	Wanga
30	Marach
31	Bukhaya
32	Samia
33	Butsotso
34	Bunyala
35	Kabras
36	Bukusu
37	Kiambu Kikuyu
38	Muranga Kikuyu
39	Nyeri Kikuyu
41	Ndia
42	Kamba
43	Embu
44	Mbere
45	Chuka
46	Muthambe
47	Mwimbi
48	Igoji
49	Imenti
50	Tigania
51	Igembe
52	Tharaka
53	Pokomo
54	Malakote
56	Giriama
57	Chonyi
58	Mid Mji Kenda
59	Digo
60	Taita
61	Taveta

Fig 6:18 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (males) - 110 variables

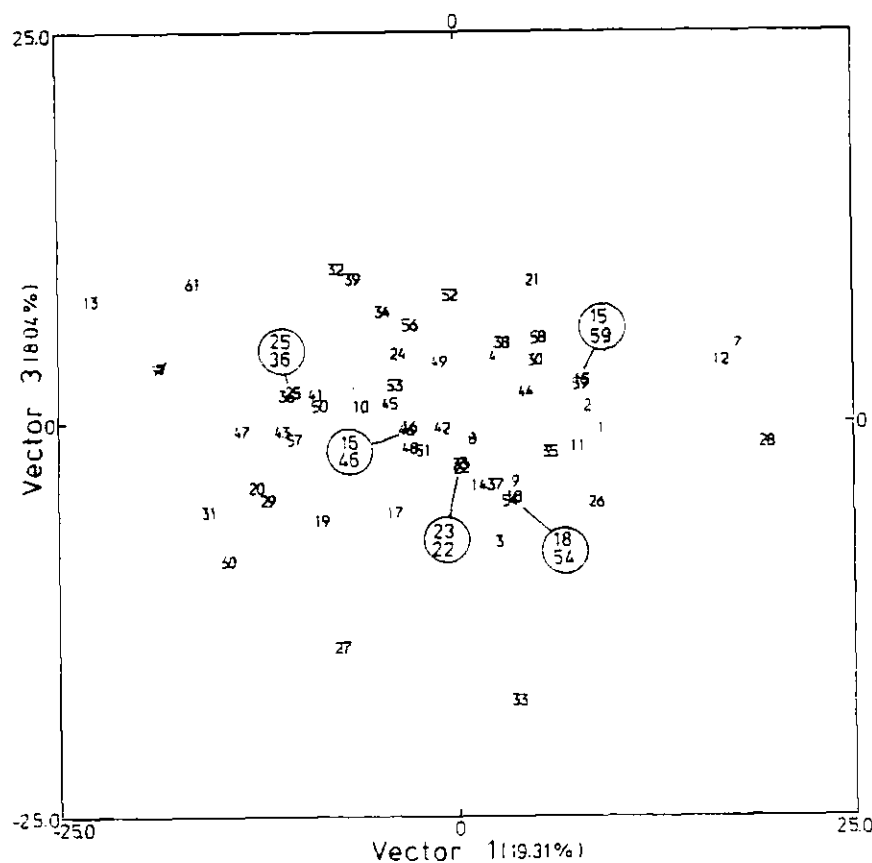
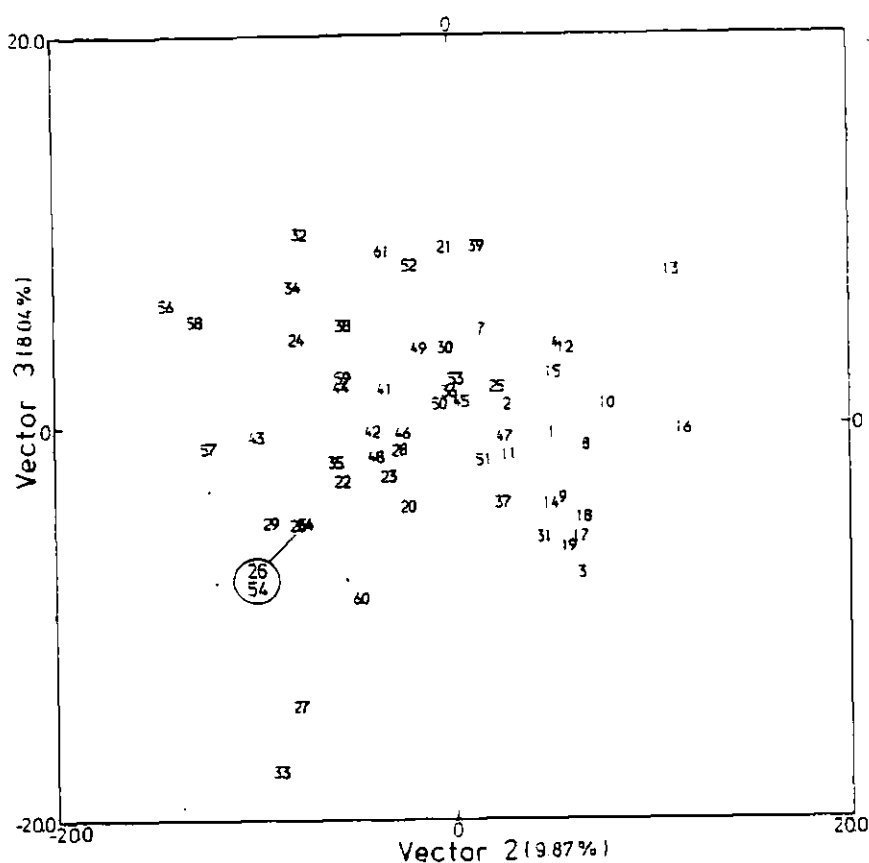


Fig 6:19 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (males) - 110 variables



Code no	Pop
1	Somali
2	Rendille
3	Gabbra
4	Boran
7	Burji
8	Samburu
9	Kadjiado Maasai
10	Narok Maasai
11	Ngwesi
12	Mukogodo
13	Kony
14	Nandi
15	Kipsigis
16	Tugen
17	Keyo
18	Marakwet
19	Pokot
20	Iteso
21	Turkana
22	Luo
23	Gusii
24	Tiriki
25	Maragoli
26	Bunyore
27	Idakho
28	Marama
29	Wanga
30	Marach
31	Bukhaya
32	Samia
33	Butsotso
34	Bunyala
35	Kabras
36	Bukusu
37	Kiambu Kikuyu
38	Muranga Kikuyu
39	Nyeri Kikuyu
41	Ndia
42	Kamba
43	Embu
44	Mbere
45	Chuka
46	Muthambe
47	Mwimbi
48	Igoji
49	Imenti
50	Tigania
51	Igembe
52	Tharaka
53	Pokomo
54	Malakote
56	Giriama
57	Chonyi
58	Mid Mji Kenda
59	Digo
60	Taita
61	Taveta

Fig 6:20 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (females) - 110 variables.

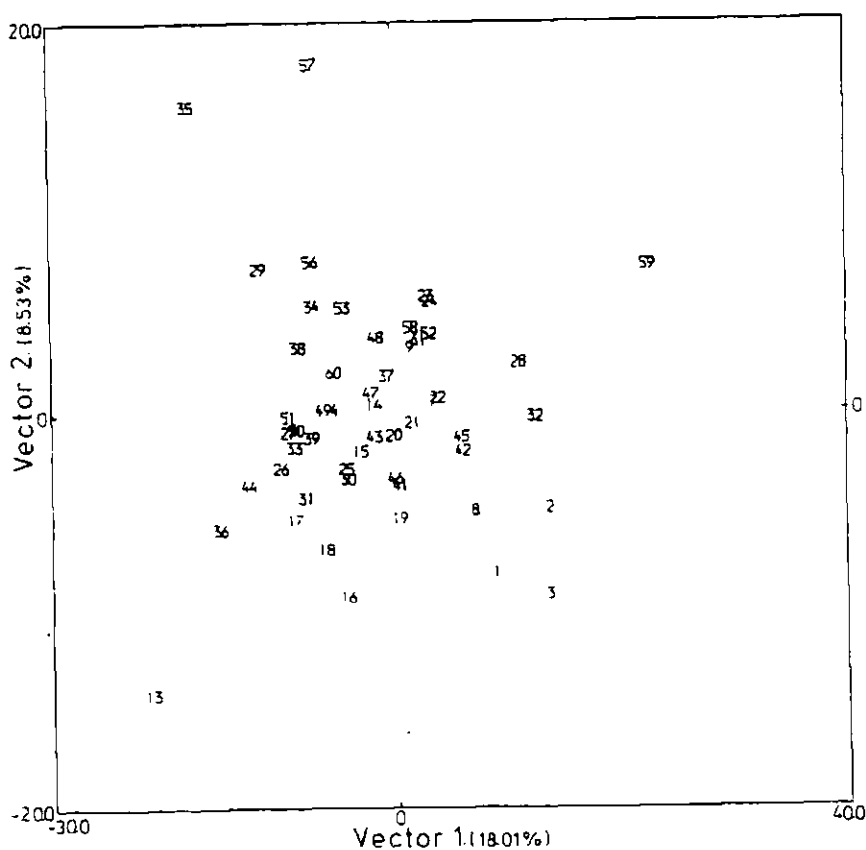
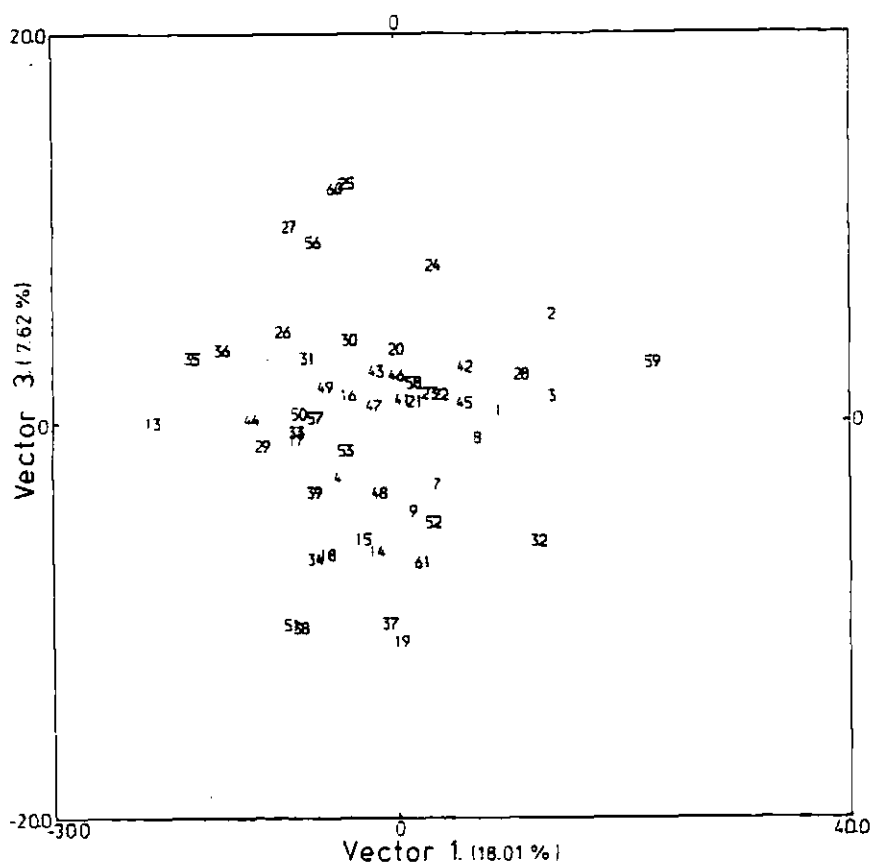


Fig 6:21 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (females)-110 variables.



Code no	Pop
1	Somali
2	Rendille
3	Gabbra
4	Boran
7	Burji
8	Samburu
9	Kadjiado Maasai
10	Narok Maasai
11	Ngwesi
12	Mukogodo
13	Kony
14	Nandi
15	Kipsigis
16	Tugen
17	Keyo
18	Marakwet
19	Pokot
20	Iteso
21	Turkana
22	Luo
23	Gusii
24	Tiriki
25	Maragoli
26	Bunyore
27	Idakho
28	Marama
29	Wanga
30	Marach
31	Bukhaya
32	Samia
33	Butsotso
34	Bunyala
35	Kabras
36	Bukusu
37	Kiambu Kikuyu
38	Muranga Kikuyu
39	Nyeri Kikuyu
41	Ndia
42	Kamba
43	Embu
44	Mbere
45	Chuka
46	Muthambe
47	Mwimbi
48	Igoji
49	Imenti
50	Tigania
51	Igembe
52	Tharaka
53	Pokomo
54	Malakote
56	Giriama
57	Chonyi
58	Mid Mji Kenda
59	Digo
60	Taita
61	Taveta

Fig 6:22 Principal co-ordinates analysis of Dg distances between Kenyan minimal samples (females)-110 variables.

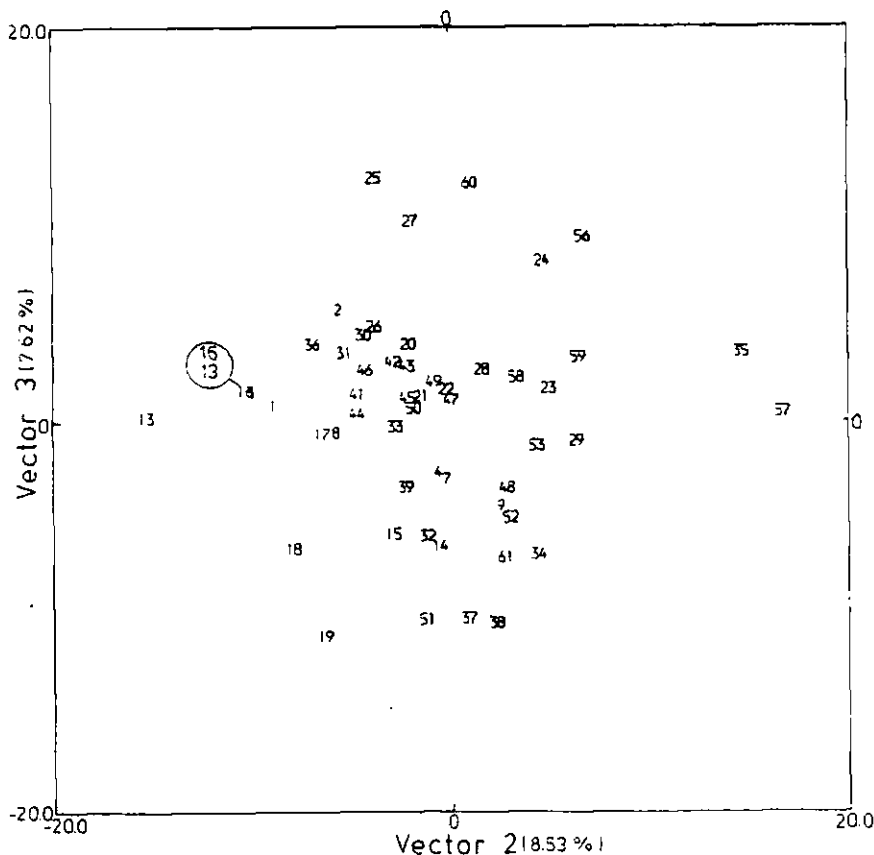
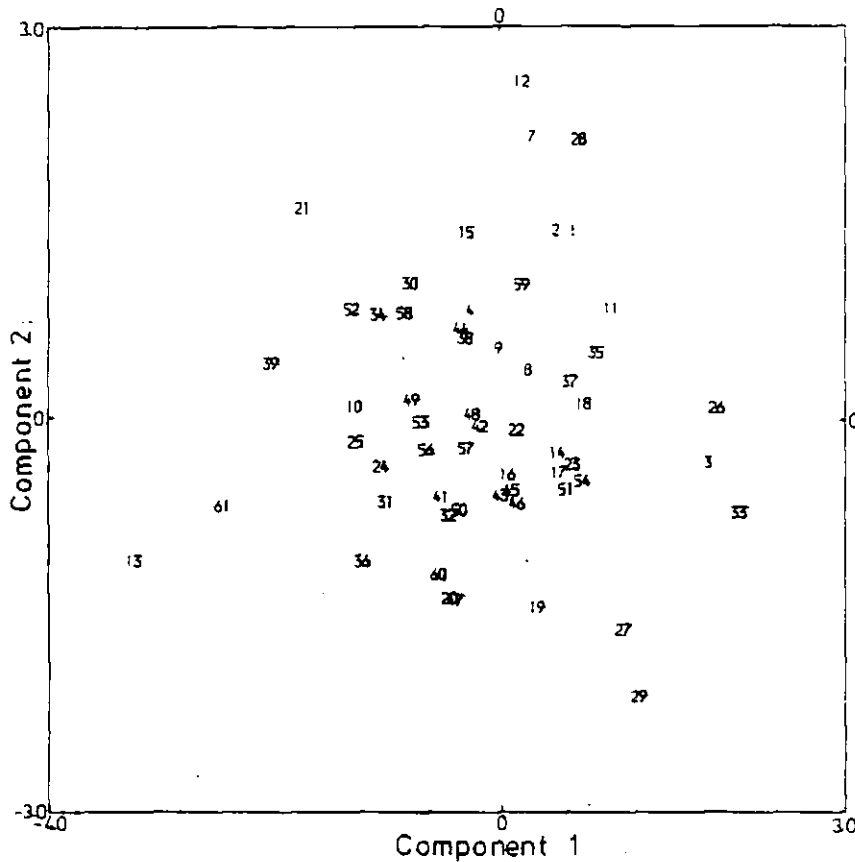


Fig 6:23 Principal components analysis of Kenyan minimal sample variation:(males) - 26 summary variables.



Code no	Pop
1	Somali
2	Rendille
3	Gabbra
4	Boran
7	Burji
8	Samburu
9	Kadjiado Maasai
10	Narok Maasai
11	Ngwesi
12	Mukogodo
13	Kony
14	Nandi
15	Kipsigis
16	Tugen
17	Keyo
18	Marakwet
19	Pokot
20	Iteso
21	Turkana
22	Luo
23	Gusii
24	Tiriki
25	Maragoli
26	Bunyore
27	Idakho
28	Marama
29	Wanga
30	Marach
31	Bukhaya
32	Samia
33	Butsotso
34	Bunyala
35	Kabras
36	Sukusu
37	Kiambu Kikuyu
38	Muranga Kikuyu
39	Nyeri Kikuyu
41	Ndia
42	Kamba
43	Embu
44	Mbere
45	Chuka
46	Muthambe
47	Mwimbi
48	Igoji
49	Imenti
50	Tigania
51	Igembe
52	Tharaka
53	Pokomo
54	Malakote
56	Girama
57	Chonyi
58	Mid Mji Kenda
59	Digo
60	Taita
61	Taveta

Fig 6:24 Principal components analysis of Kenyan minimal sample variation:(males) - 26 summary variables.

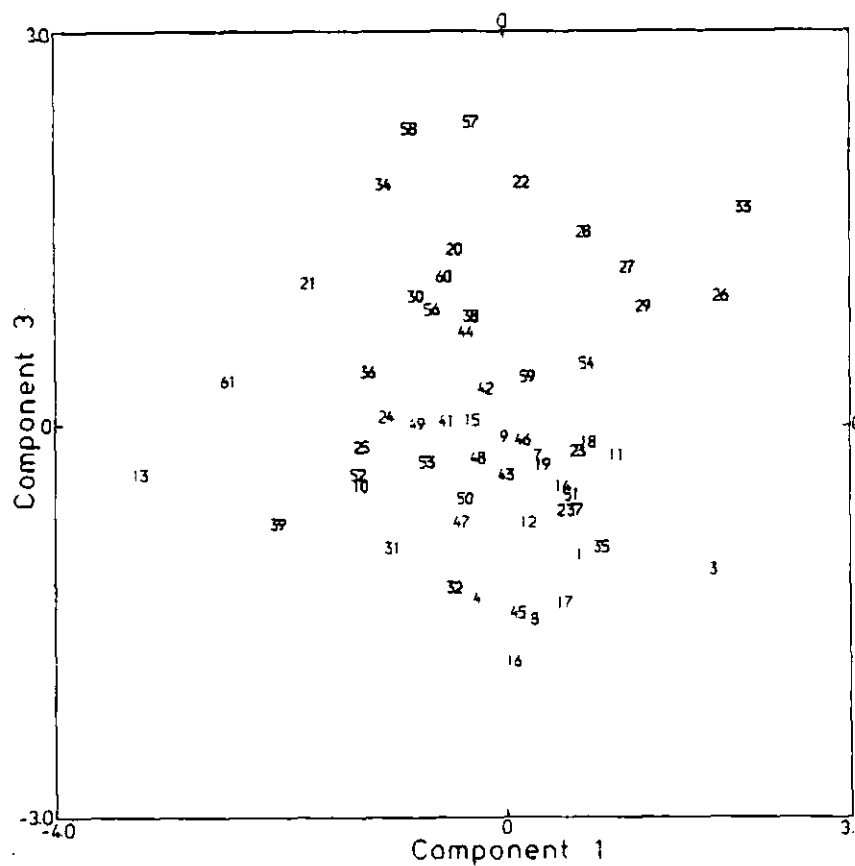
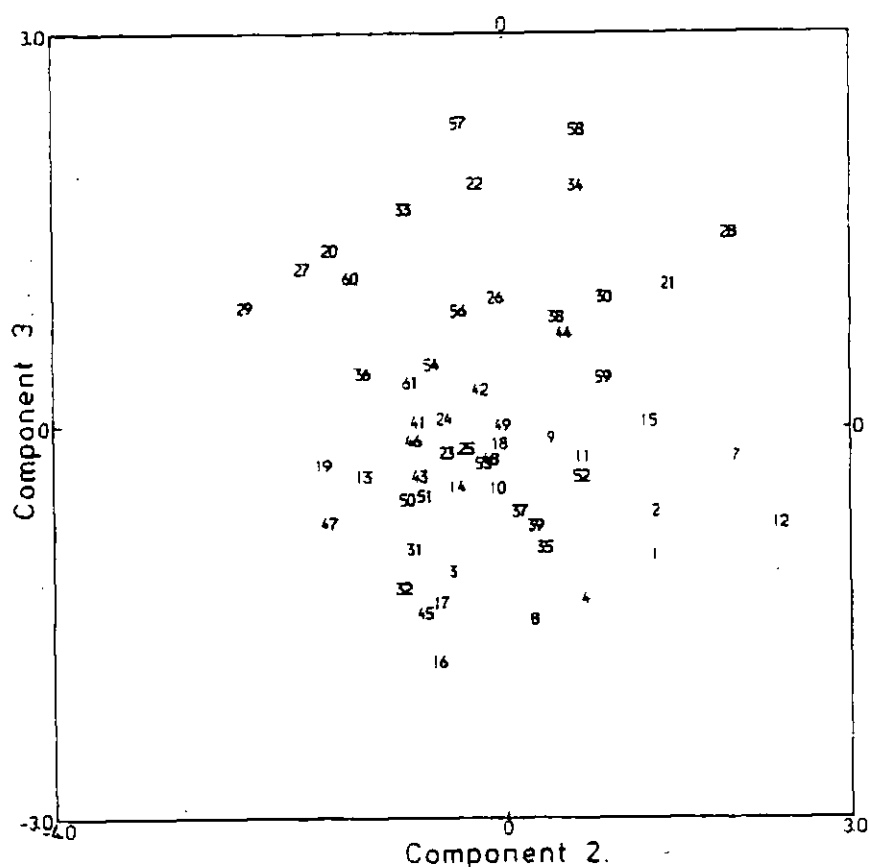


Fig 6:25 Principal components analysis of Kenyan minimal sample variation: (males) - 26 summary variables.



Code no	Pop
1	Somali
2	Rendille
3	Gabbra
4	Boran
7	Burji
8	Samburu
9	Kadjiado Maasai
10	Narok Maasai
11	Ngwesi
12	Mukogodo
13	Kony
14	Nandi
15	Kipsigis
16	Tugen
17	Keyo
18	Marakwet
19	Pokot
20	Iteso
21	Turkana
22	Luo
23	Gusii
24	Tiriki
25	Maragoli
26	Bunyore
27	Idakho
28	Marama
29	Wanga
30	Marach
31	Bukhaya
32	Samia
33	Butsotso
34	Bunyala
35	Kahras
36	Bukusu
37	Kiambu Kikuyu
38	Muranga Kikuyu
39	Nyeri Kikuyu
41	Ndia
42	Kamba
43	Embu
44	Mbere
45	Chuka
46	Muthambe
47	Mwimbi
48	Igoji
49	Imenti
50	Tigania
51	Igembe
52	Tharaka
53	Pokomo
54	Malakote
56	Giriama
57	Chonyi
58	Mid Mji Kenda
59	Digo
60	Taita
61	Taveta

Fig 6:26 Principal components analysis of Kenyan minimal sample variation: (females) - 26 summary variables.

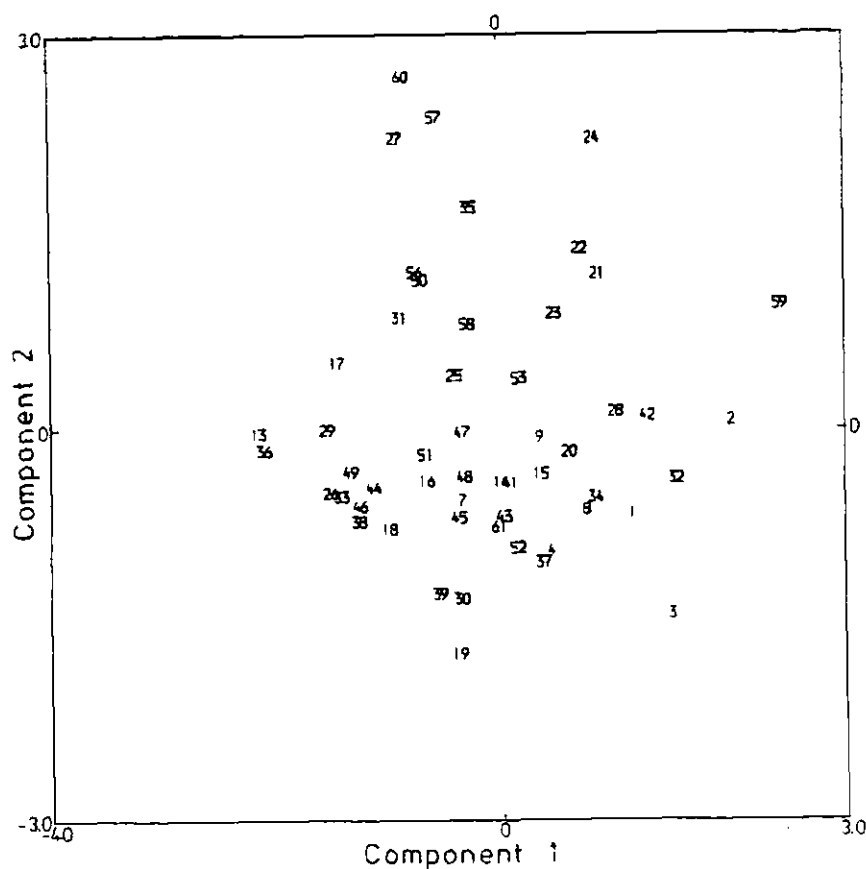


Fig 6:27 Principal components analysis of Kenyan minimal sample variation:(females)- 26 summary variables.

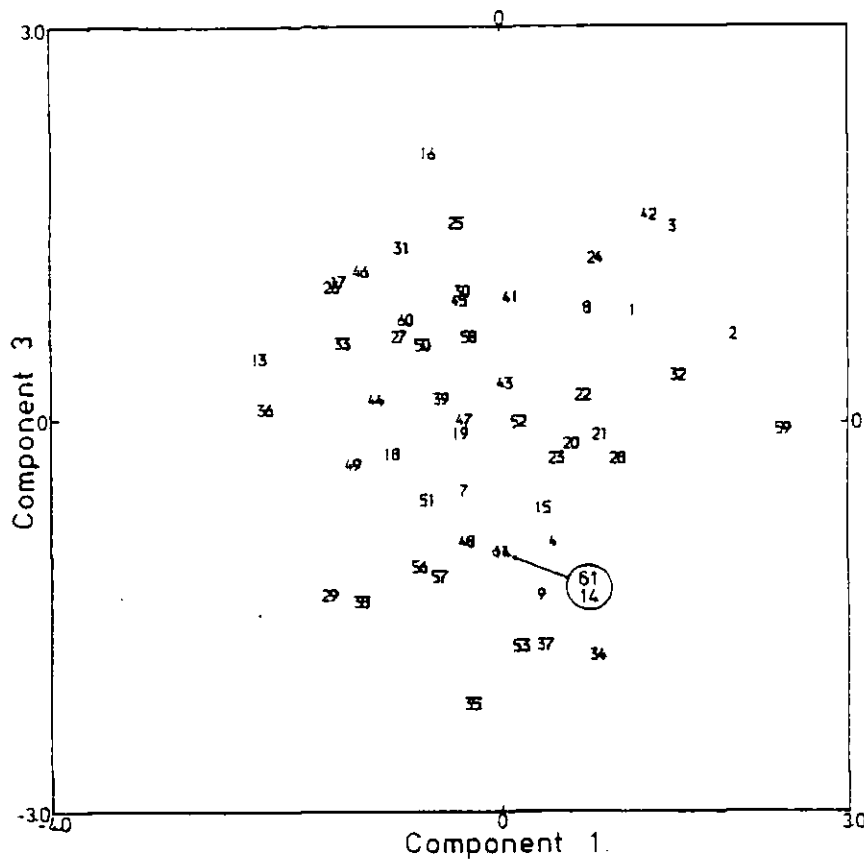
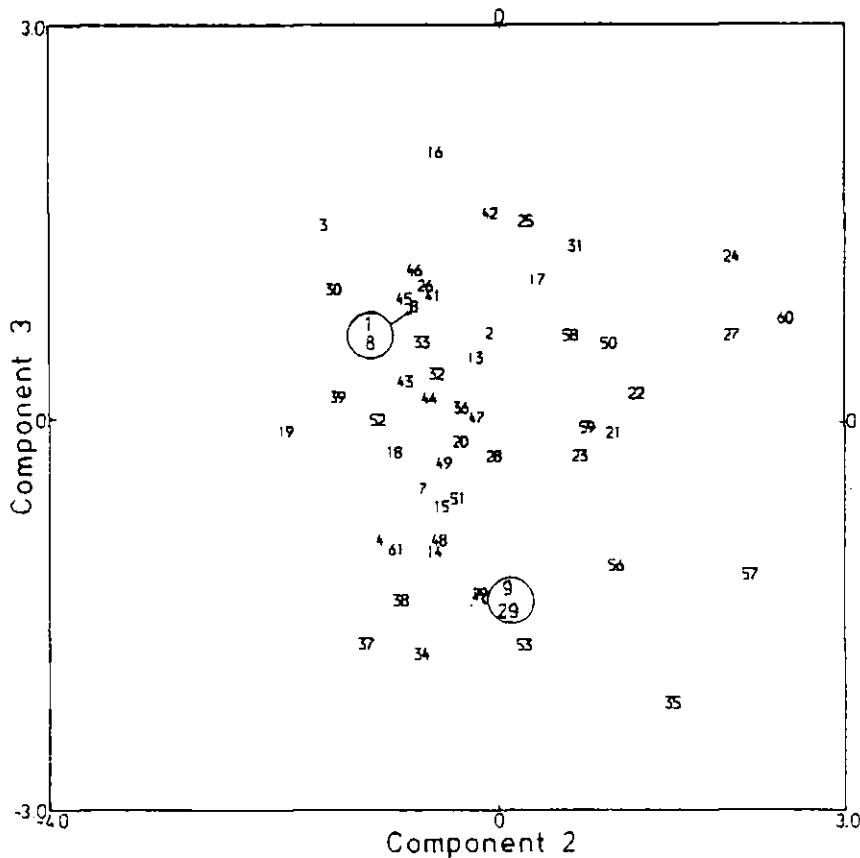


Fig 6:28 Principal components analysis of Kenyan minimal sample variation:(females)- 26 summary variables.



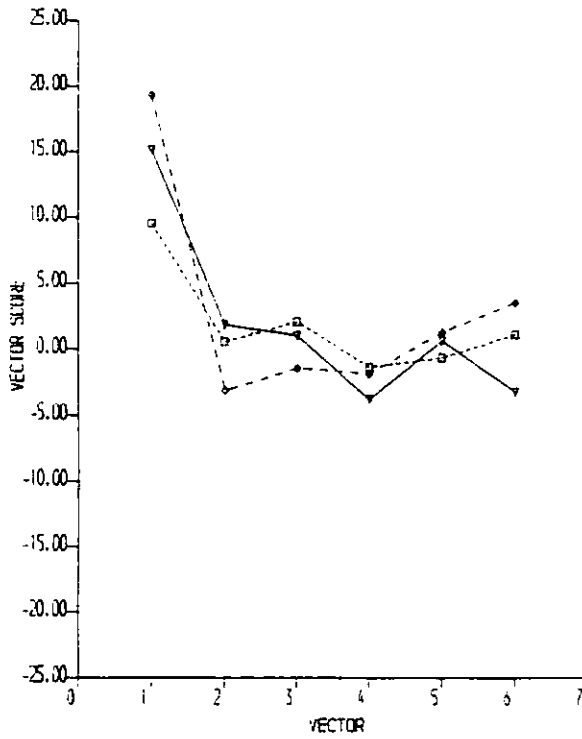


FIG 8-1
DISTRIBUTION OF THE FIRST SIX PRINCIPAL
COORDINATES - CUSHITIC GROUPS (MALES)
ANALYSIS BASED ON TWENTY SIX
DIGITAL AND PALMAR VARIABLES

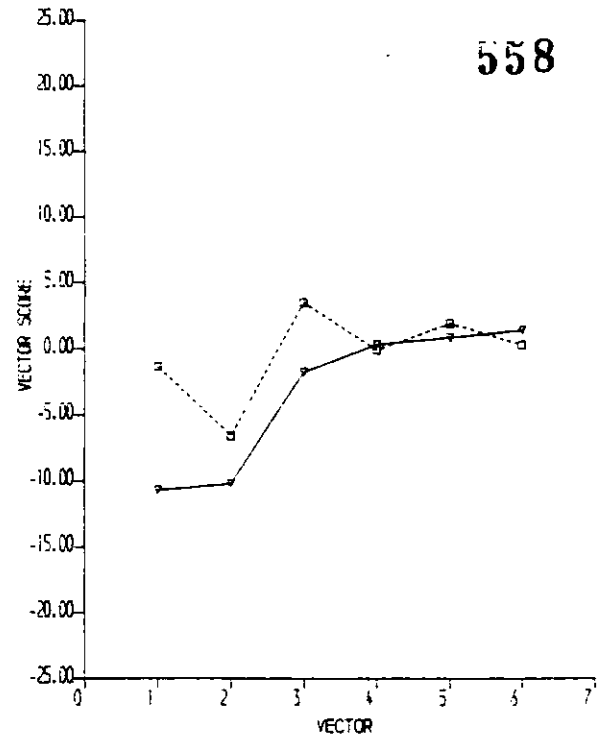


FIG 8-2
DISTRIBUTION OF THE FIRST SIX PRINCIPAL
COORDINATES - CUSHITIC GROUPS (FEMALES)
ANALYSIS BASED ON TWENTY SIX
DIGITAL AND PALMAR VARIABLES

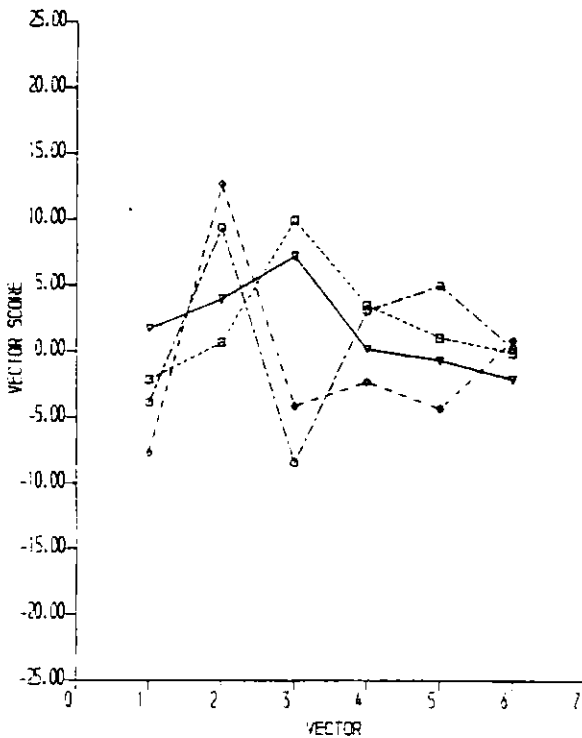


FIG 8-3
DISTRIBUTION OF THE FIRST SIX PRINCIPAL
COORDINATES - NILOTTIC GROUPS (MALES)
ANALYSIS BASED ON TWENTY SIX
DIGITAL AND PALMAR VARIABLES

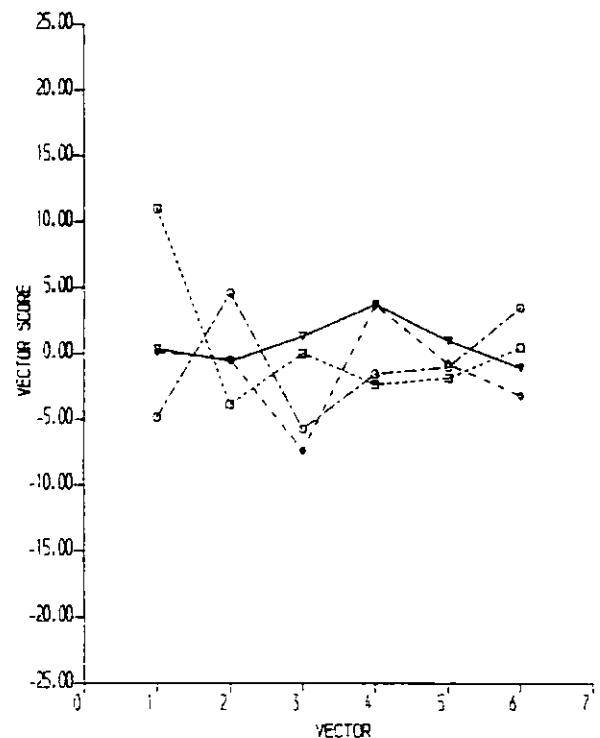


FIG 8-4
DISTRIBUTION OF THE FIRST SIX PRINCIPAL
COORDINATES - NILOTTIC GROUPS (FEMALES)
ANALYSIS BASED ON TWENTY SIX
DIGITAL AND PALMAR VARIABLES

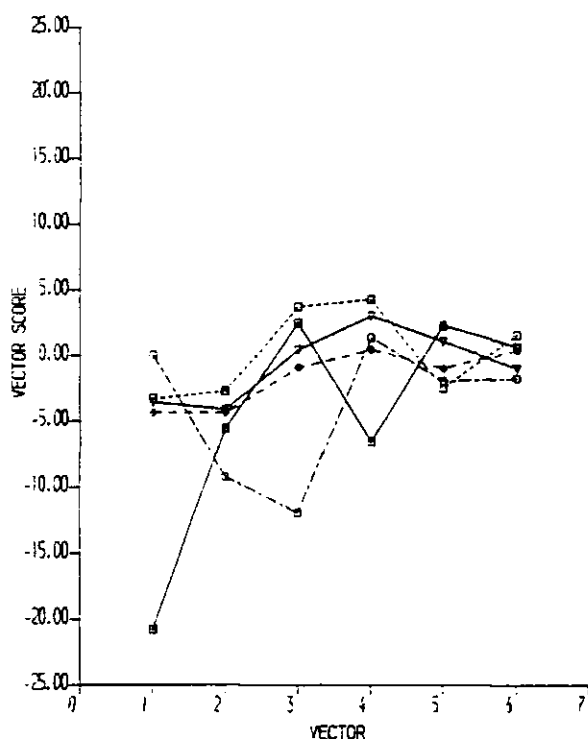


FIG 8-5
DISTRIBUTION OF THE FIRST SIX PRINCIPAL
COORDINATES - BANTU GROUPS (MALES)
ANALYSIS BASED ON TWENTY SIX
DIGITAL AND PALMAR VARIABLES

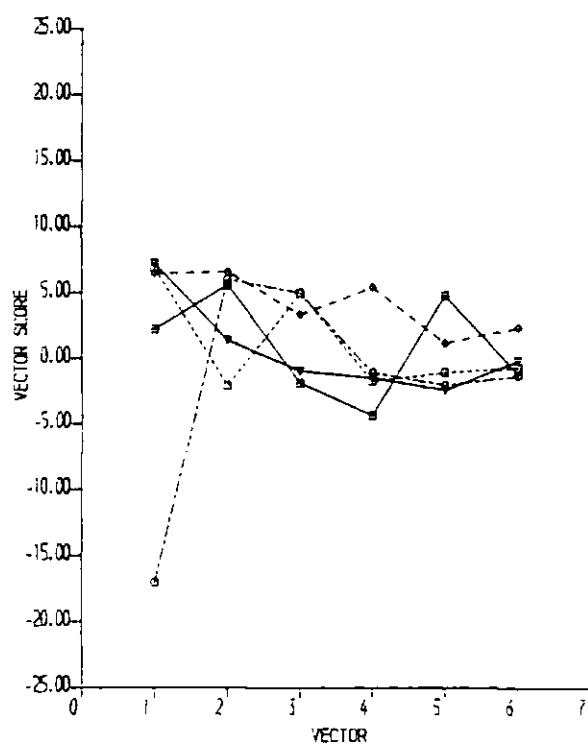


FIG 8-6
DISTRIBUTION OF THE FIRST SIX PRINCIPAL
COORDINATES - BANTU GROUPS (FEMALES)
ANALYSIS BASED ON TWENTY SIX
DIGITAL AND PALMAR VARIABLES

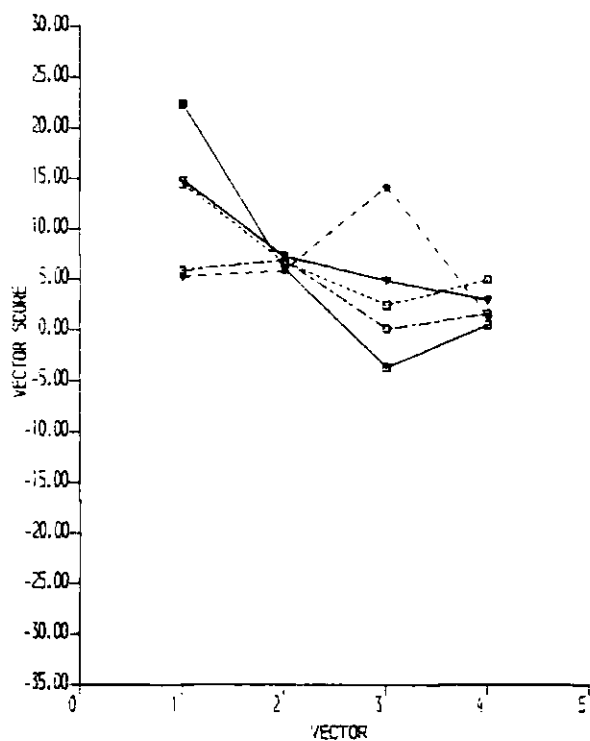


FIG 8:7
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES CUSHITIC SAMPLES (MALES)
ANALYSIS BASED ON TWENTY SIX SUMMARY
VARIABLES

—●— SOMALI
- - - □ - - - RENDILLE
- - - ▲ - - - GABBERA
- - - ○ - - - BORAN
- - - ■ - - - BURJI

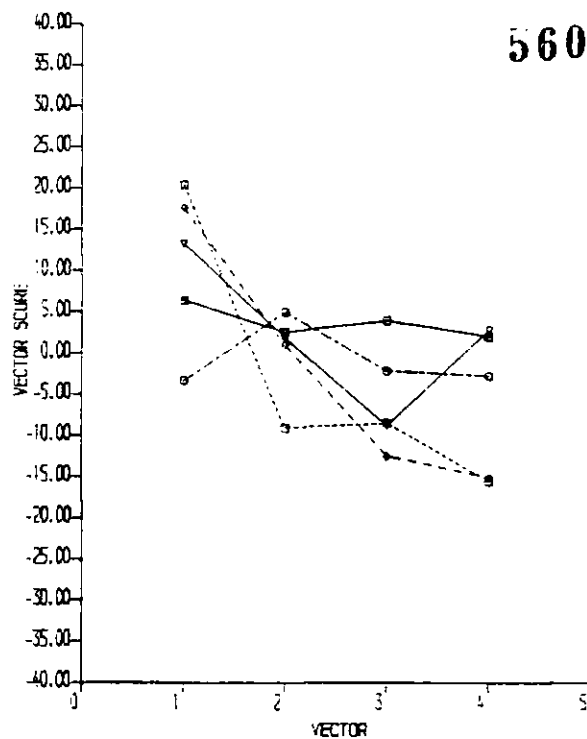


FIG 8:8
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES CUSHITIC SAMPLES (FEMALES)
ANALYSIS BASED ON TWENTY SIX SUMMARY
VARIABLES

—●— SOMALI
- - - □ - - - RENDILLE
- - - ▲ - - - GABBERA
- - - ○ - - - BORAN
- - - ■ - - - BURJI

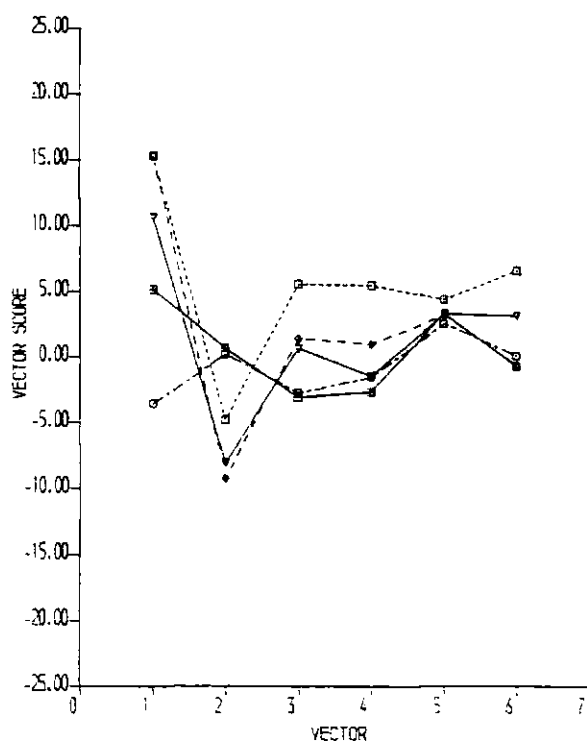


FIG 8:9
DISTRIBUTION OF FIRST SIX PRINCIPAL
CO-ORDINATES CUSHITIC SAMPLES
(FEMALES) - ANALYSIS BASED ON
ONE HUNDRED AND TEN VARIABLES

—●— SOMALI
- - - □ - - - RENDILLE
- - - ▲ - - - GABBERA
- - - ○ - - - BORAN
- - - ■ - - - BURJI

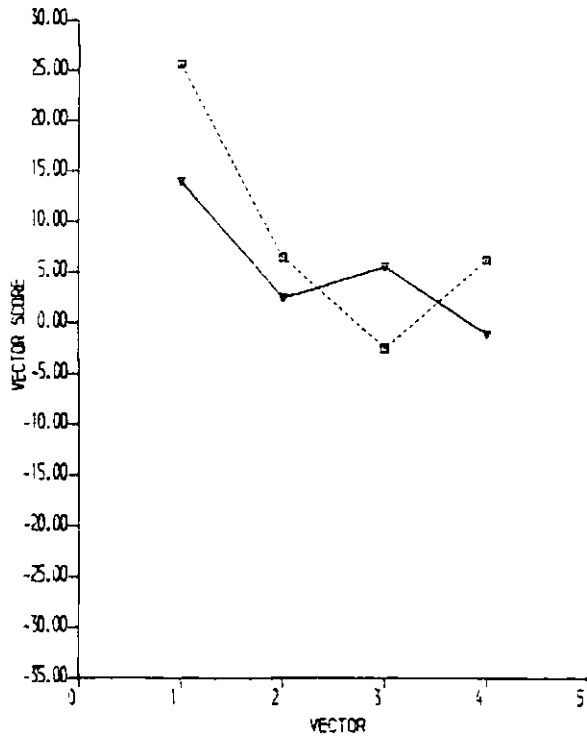


FIG 8:10
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - DOROBO SAMPLES (MALES)
ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

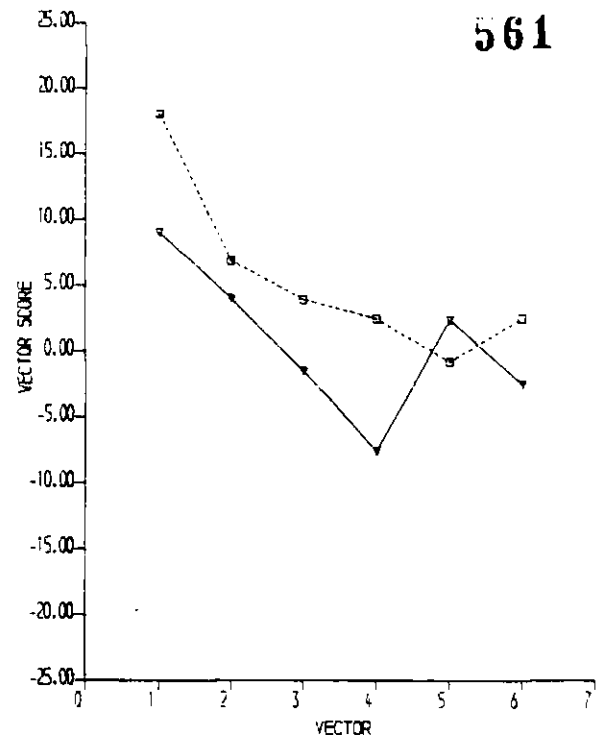


FIG 8:11
DISTRIBUTION OF FIRST SIX PRINCIPAL
CO-ORDINATES - DOROBO SAMPLES (MALES)
ANALYSIS BASED ON
ONE HUNDRED AND TEN VARIABLES

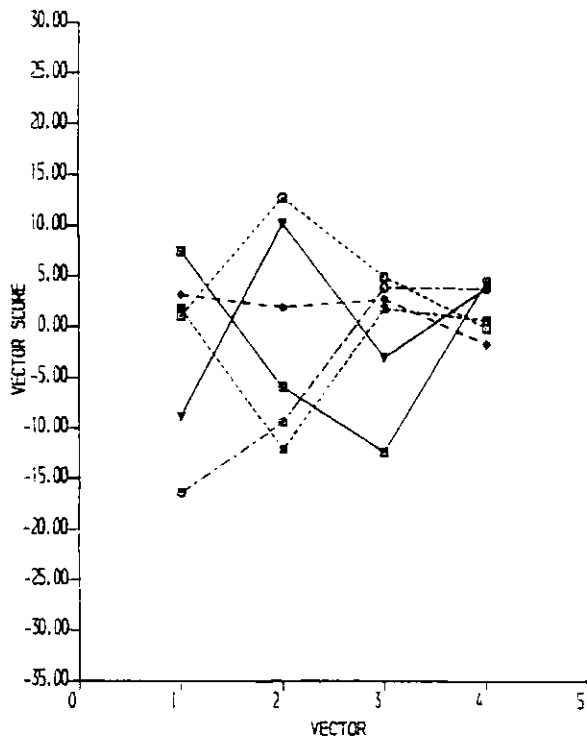


FIG 8:12
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES NON KALENIN NILOTIC
SAMPLES (MALES) - ANALYSIS BASED ON
TWENTY SIX SUMMARY VARIABLES.

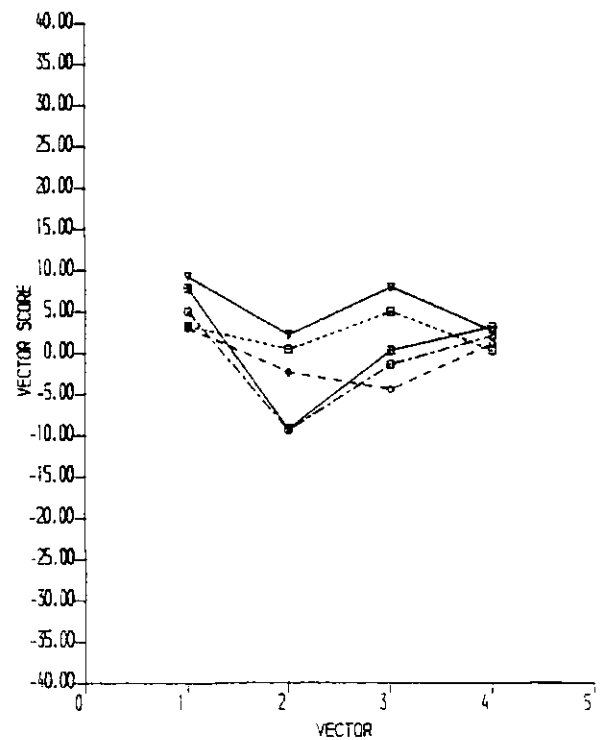


FIG 8:13
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES NON KALENIN NILOTIC
SAMPLES (FEMALES) - ANALYSIS BASED ON
TWENTY SIX SUMMARY VARIABLES.

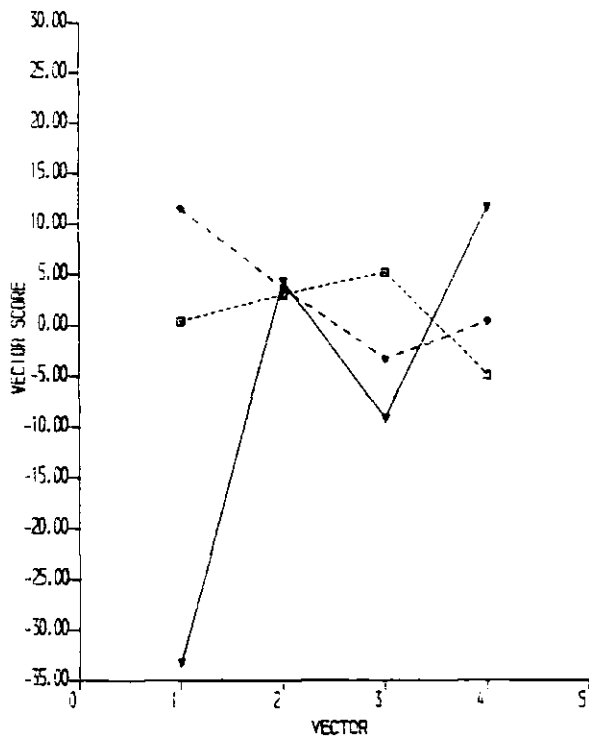


FIG 8-14
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - SOUTH-WESTERN KALENJIN
SAMPLES (MALES) - ANALYSIS BASED ON
TWENTY SIX SUMMARY VARIABLES

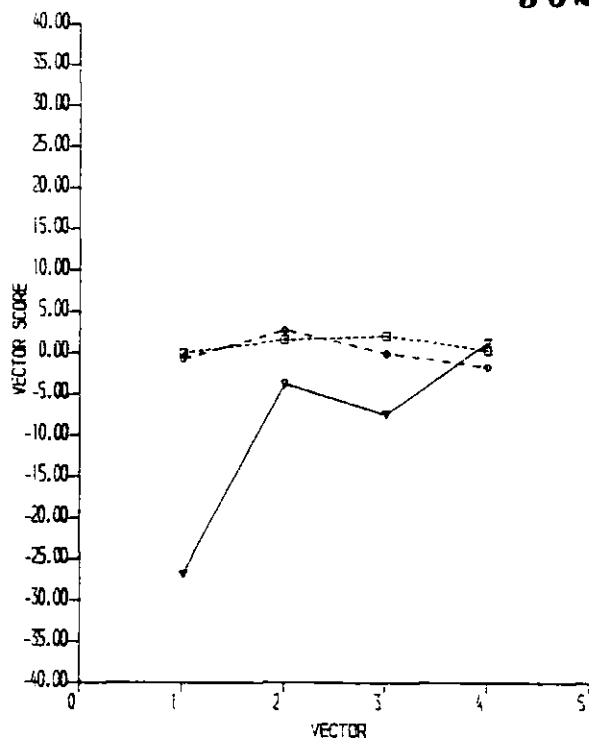


FIG 8-15
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - SOUTH-WESTERN KALENJIN
SAMPLES (FEMALES) - ANALYSIS BASED ON
TWENTY SIX SUMMARY VARIABLES

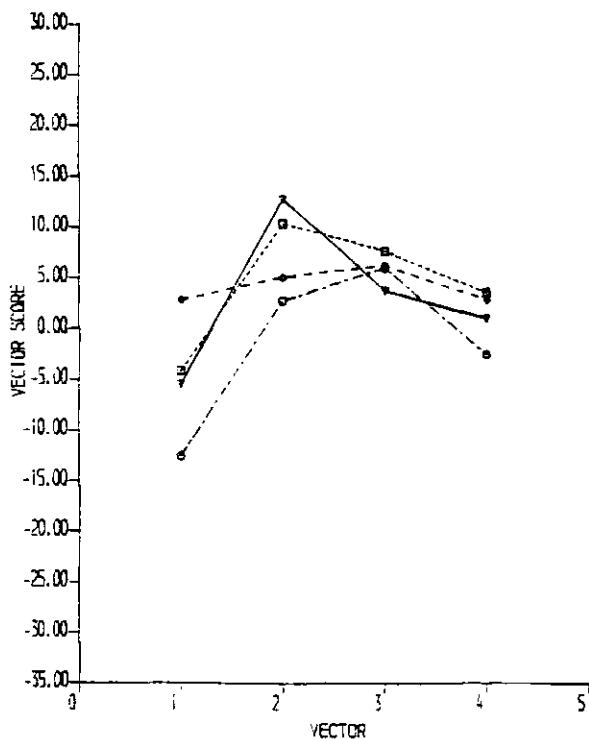


FIG 8-16
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NORTH-EASTERN KALENJIN
SAMPLES (MALES) - ANALYSIS BASED ON
TWENTY SIX SUMMARY VARIABLES

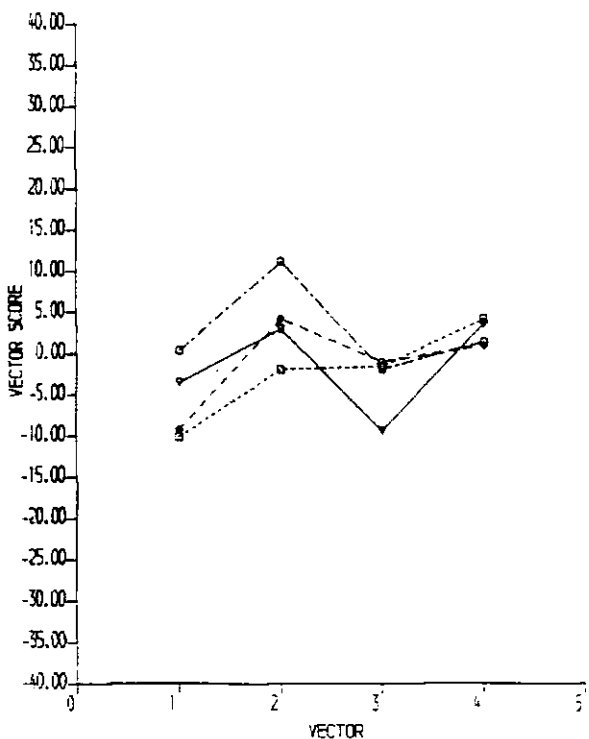


FIG 8-17
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NORTH-EASTERN KALENJIN
SAMPLES (FEMALES) - ANALYSIS BASED ON
TWENTY SIX SUMMARY VARIABLES

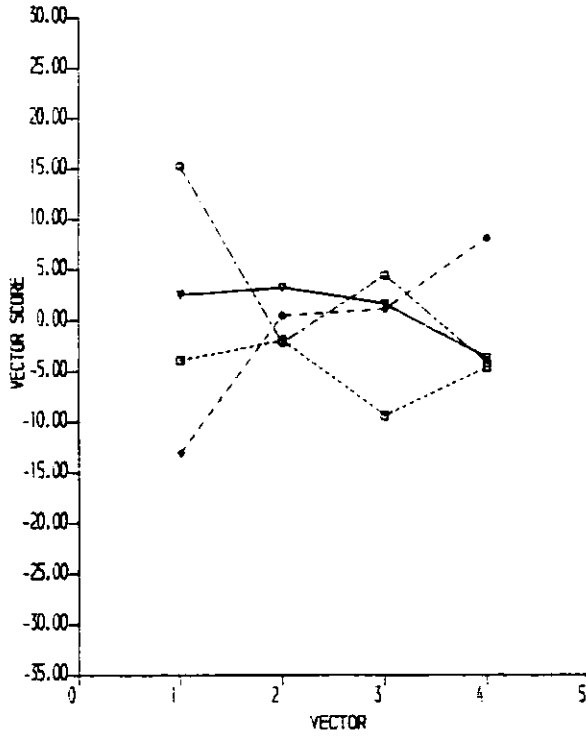


FIG 8:18
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - SOUTHERN LUYIA SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY SIX
SUMMARY VARIABLES

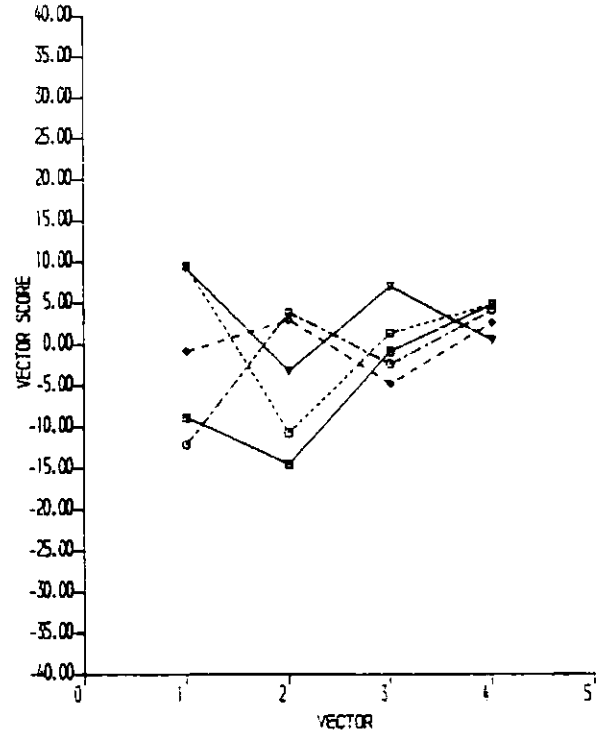


FIG 8:19
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - SOUTHERN LUYIA SAMPLES
(FEMALES) - BASED ON TWENTY SIX SUMMARY
VARIABLES

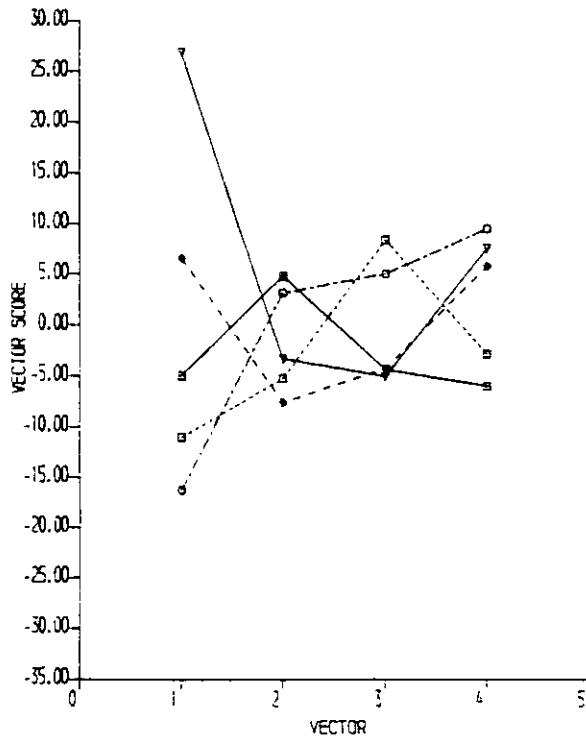


FIG 8:20
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - CENTRAL LUYIA SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

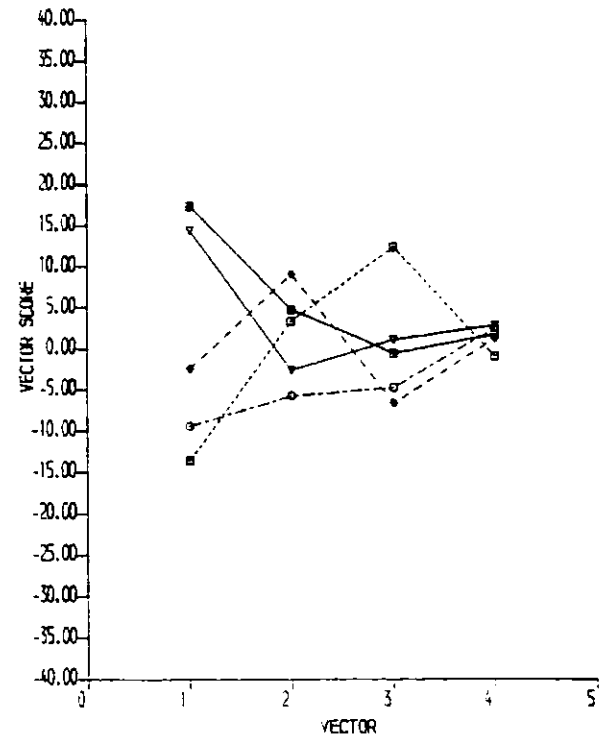


FIG 8:21
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - CENTRAL LUYIA SAMPLES
(FEMALES) - BASED ON TWENTY SIX SUMMARY
VARIABLES

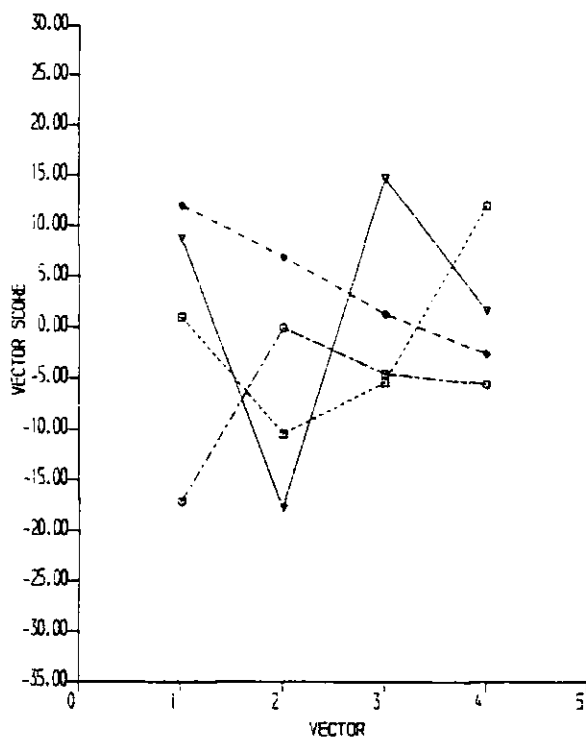


FIG 8-22
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES NORTHERN LUYIA SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

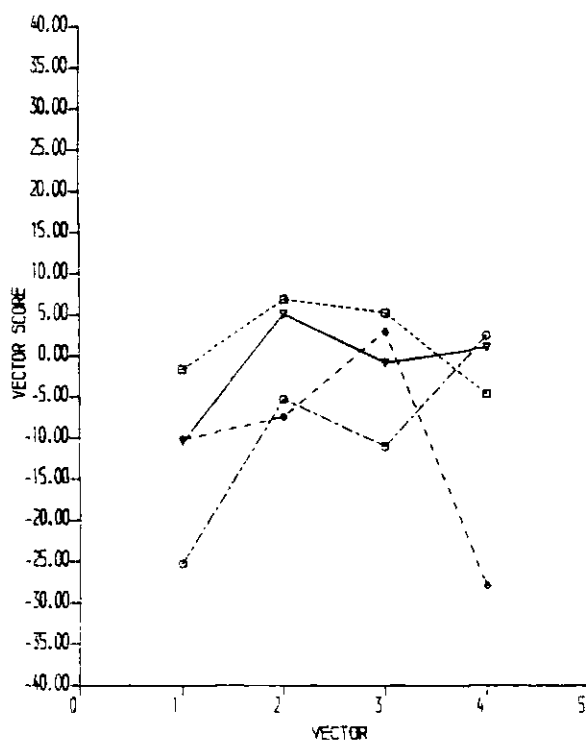


FIG 8-23
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES NORTHERN LUYIA SAMPLES
(FEMALES) - BASED ON TWENTY SIX SUMMARY
VARIABLES

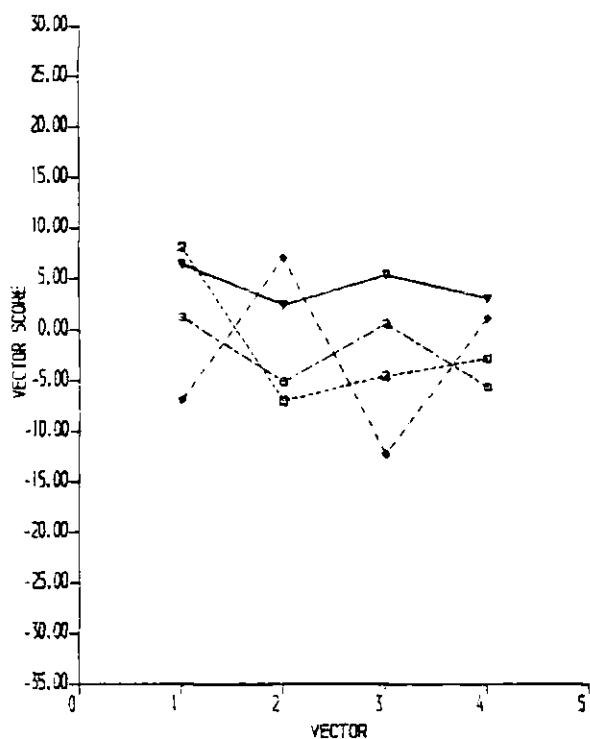


FIG 8:24
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - KIKUYU AND KAMBA SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

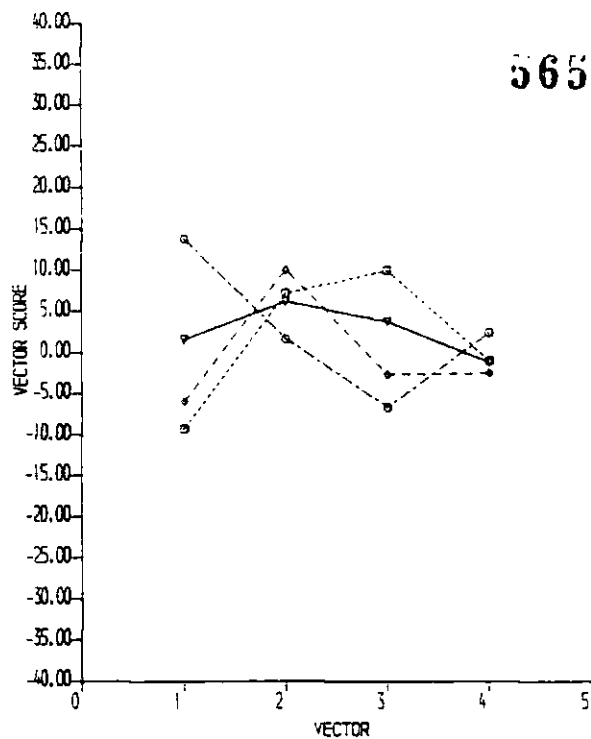


FIG 8:25
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - KIKUYU AND KAMBA SAMPLES
(FEMALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

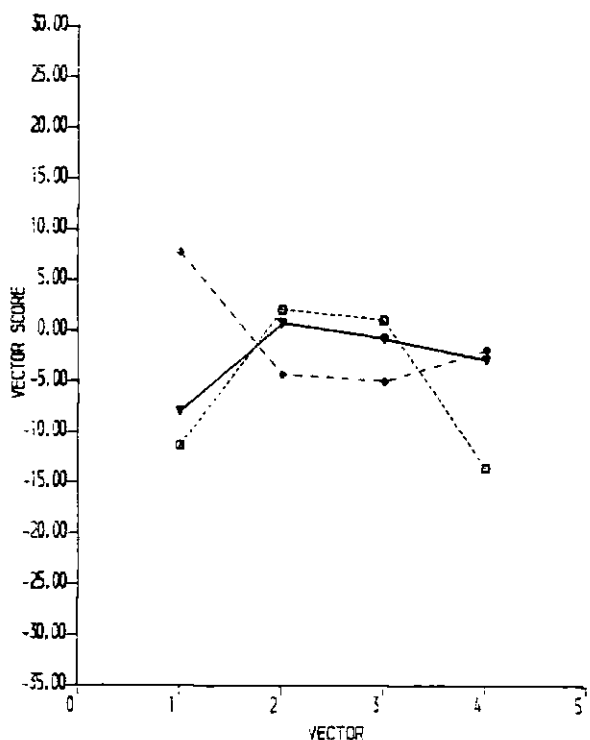


FIG 8:26
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NDIA, EMBU, MBERE SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

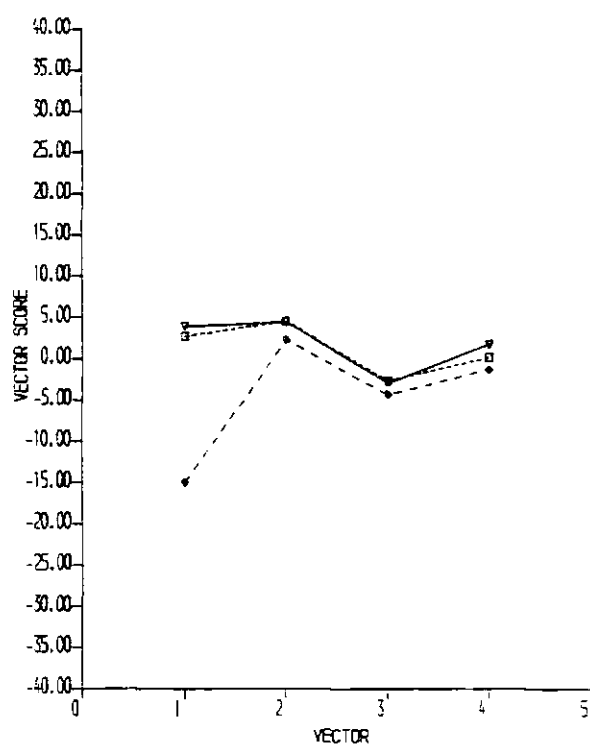


FIG 8:27
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NDIA, EMBU, MBERE SAMPLES
(FEMALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

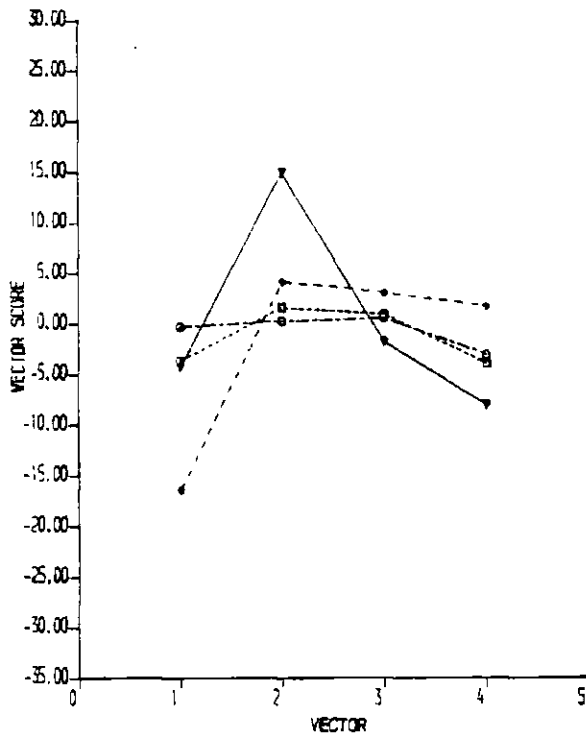


FIG 8:28
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - SOUTHERN MERU SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY
SUMMARY VARIABLES

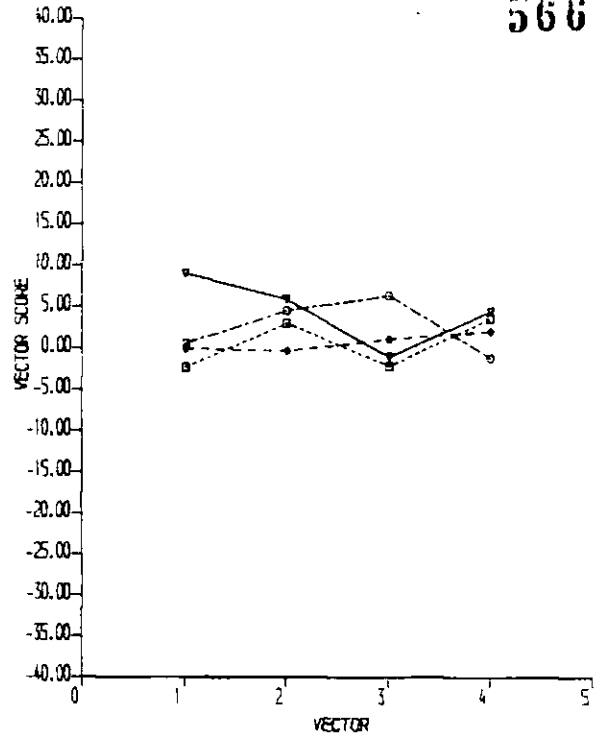


FIG 8:29
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - SOUTHERN MERU SAMPLES
(FEMALES) - ANALYSIS BASED ON TWENTY SIX
SUMMARY VARIABLES

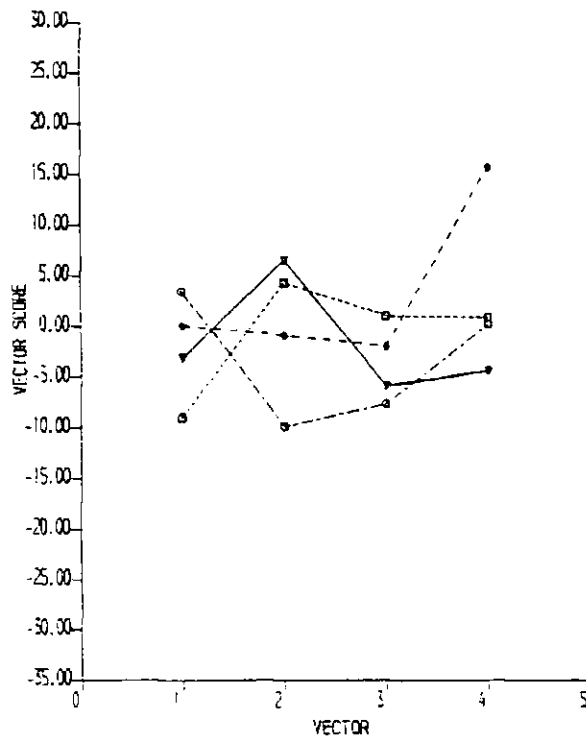


FIG 8:30
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NORTHERN MERU SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

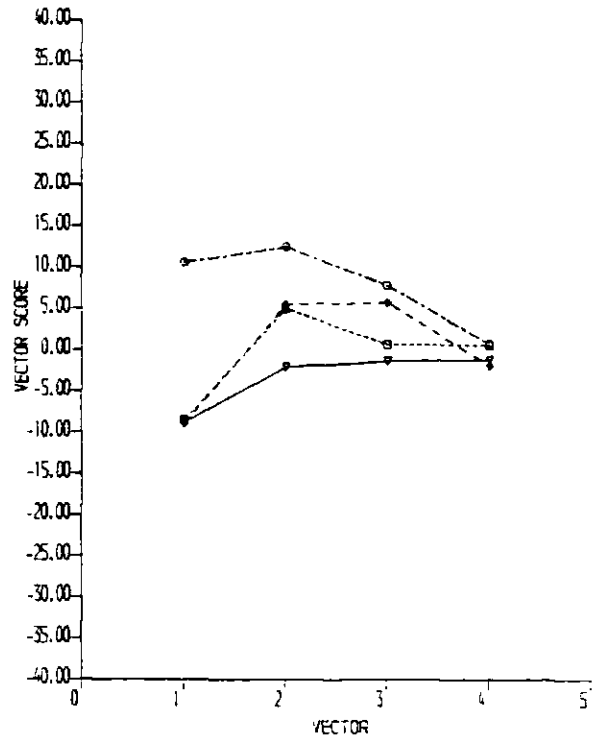


FIG 8:31
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NORTHERN MERU SAMPLES
(FEMALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

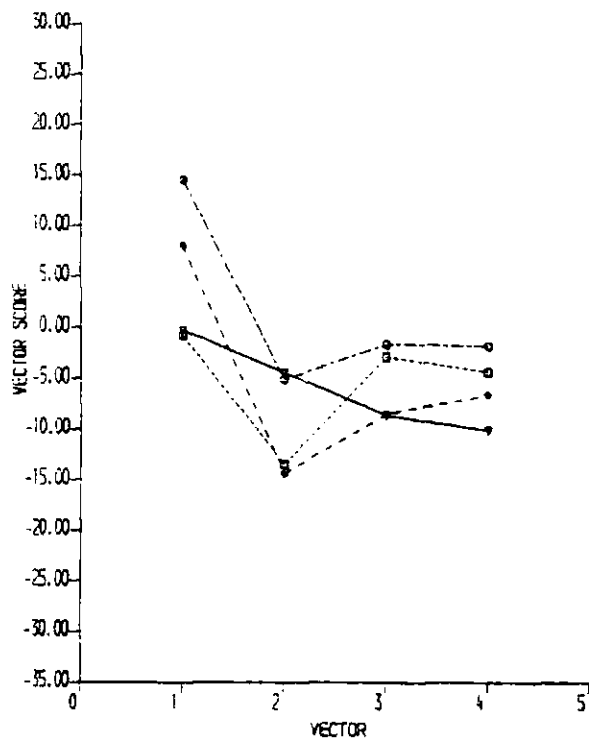


FIG 8:32
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NJI KENDA SAMPLES (MALES)
ANALYSIS BASED ON TWENTY SIX
SUMMARY VARIABLES

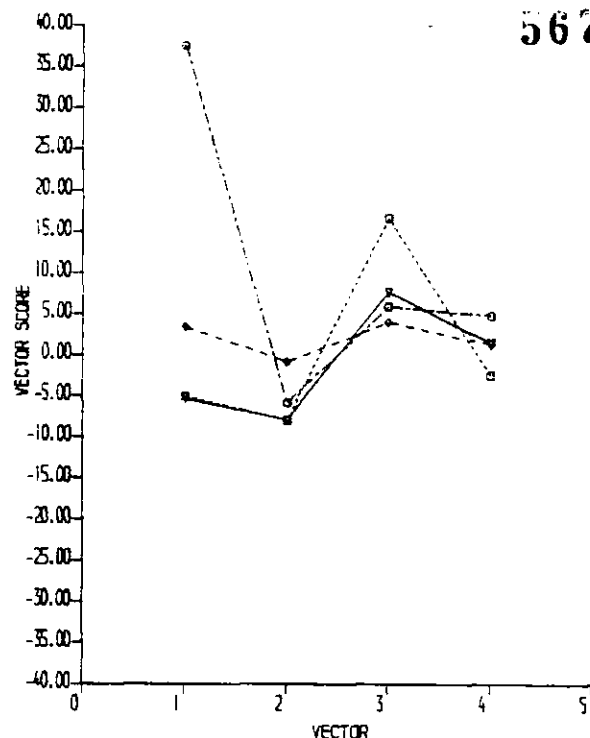


FIG 8:33
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - NJI KENDA SAMPLES (FEMALES)
ANALYSIS BASED ON TWENTY SIX
SUMMARY VARIABLES

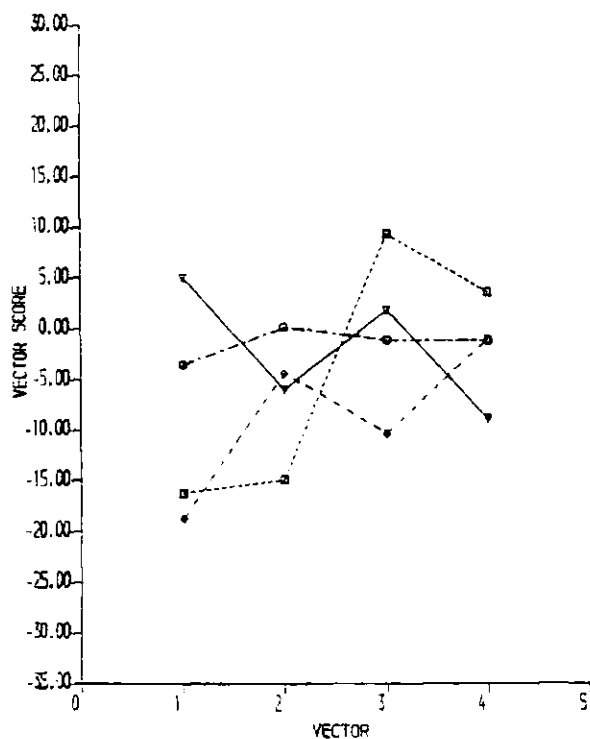


FIG 8:34
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - POKOMO AND TAITA SAMPLES
(MALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

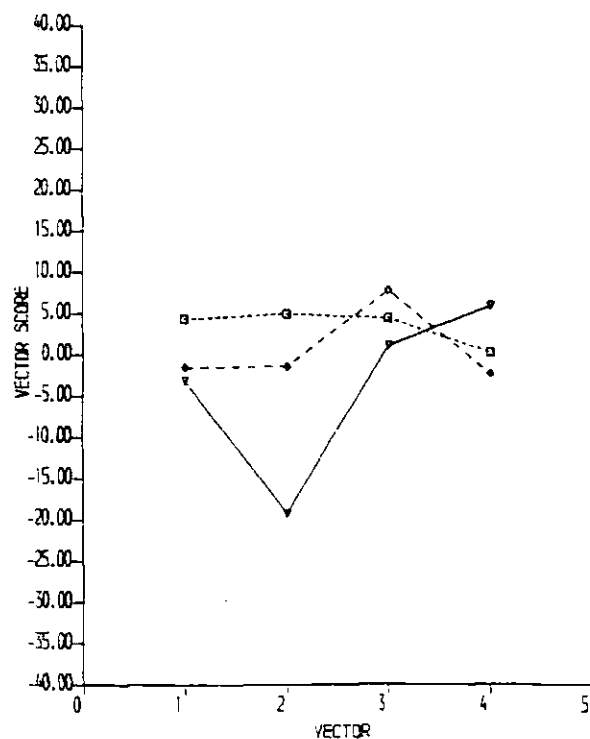


FIG 8:35
DISTRIBUTION OF FIRST FOUR PRINCIPAL
CO-ORDINATES - POKOMO AND TAITA SAMPLES
(FEMALES) - ANALYSIS BASED ON TWENTY
SIX SUMMARY VARIABLES

APPENDIX 1: UNIVARIATE TABLES OF DERMATOGLYPHIC VARIATION:

- (1): Total Sample
- (2): Ethnic Categories
- (3): Ethnic Groups
- (4): Minimal Ethnic Population Samples

TABLE AP.1.1.1 : DISTRIBUTION OF FINGER RIDGE COUNTS IN THE KENYA TOTAL SAMPLE BY SEX.

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ATTRIBUTE	SEX	NO.	RIGHT MEAN	HAND SD.	SE.	NO.	LEFT MEAN	HAND SD.	SE.
RADIAL RIDGE COUNTS:									
FR1	M	3464	14.87	6.35	0.11	3455	13.05	6.29	0.11
	F	2639	13.35	6.11	0.12	2645	11.40	6.10	0.12
FR2	M	3458	9.34	5.46	0.09	3438	8.24	5.45	0.09
	F	2637	9.14	5.15	0.10	2631	7.43	5.23	0.10
FR3	M	3465	10.42	4.80	0.08	3453	10.07	5.32	0.09
	F	2641	10.10	4.81	0.09	2645	9.04	5.41	0.11
FR4	M	3458	13.37	5.40	0.09	3451	12.67	5.35	0.09
	F	2635	12.81	5.62	0.11	2631	11.71	5.62	0.11
FR5	M	3460	11.65	4.55	0.08	3451	11.14	4.47	0.08
	F	2632	10.97	4.71	0.09	2631	10.21	4.66	0.09
TRADRC	M	3385	59.61	20.77	0.36	3334	55.11	21.54	0.37
	F	2578	56.22	20.83	0.41	2571	49.78	21.71	0.43
ULNAR RIDGE COUNTS:									
FU1	M	3464	6.22	7.61	0.13	3468	5.46	7.42	0.13
	F	2640	5.12	6.97	0.14	2649	5.51	7.19	0.14
FU2	M	3469	4.57	6.29	0.11	3465	4.75	6.50	0.11
	F	2640	3.98	6.15	0.12	2646	4.95	6.70	0.13
FU3	M	3479	2.12	4.87	0.08	3482	2.64	5.47	0.09
	F	2651	1.54	4.26	0.08	2654	2.52	5.39	0.11
FU4	M	3472	4.67	6.12	0.10	3467	4.45	6.24	0.11
	F	2643	3.53	5.59	0.11	2653	4.12	6.05	0.12
FUS	M	3476	1.18	3.10	0.05	3481	1.24	3.34	0.06
	F	2653	0.73	2.43	0.05	2651	1.17	3.21	0.06
TULNRC	M	3418	10.73	19.86	0.34	3401	10.49	20.49	0.36
	F	2615	14.80	10.34	0.36	2616	10.12	20.25	0.40
UNILATERAL RIDGE COUNTS:									
F1	M	3452	15.27	6.28	0.11	3442	13.65	6.31	0.11
	F	2635	13.78	6.04	0.12	2639	12.30	6.13	0.12
F2	M	3455	10.60	5.31	0.09	3431	9.91	5.44	0.09
	F	2634	10.10	5.22	0.10	2623	9.28	5.62	0.11
F3	M	3462	10.70	4.88	0.08	3452	10.46	5.38	0.09
	F	2641	10.25	4.89	0.10	2642	9.42	5.55	0.11
F4	M	3454	13.52	5.34	0.09	3439	12.92	5.25	0.09
	F	2629	12.95	5.52	0.11	2630	12.03	5.50	0.11
F5	M	3450	11.69	4.51	0.08	3449	11.19	4.45	0.08
	F	2632	11.00	4.60	0.09	2627	10.30	4.60	0.09
TRC	M	3367	61.67	21.44	0.37	3305	58.00	22.25	0.39
	F	2569	57.95	21.53	0.43	2553	53.21	22.50	0.45
ABSOLUTE RIDGE COUNTS:									
ABS1	M	3452	21.09	11.04	0.20	3442	18.49	11.47	0.20
	F	2635	18.46	10.95	0.21	2639	16.91	11.05	0.22
ABS2	M	3455	13.91	9.07	0.15	3431	13.00	9.27	0.16
	F	2634	13.14	8.92	0.17	2623	12.40	9.50	0.19
ABS3	M	3462	12.55	7.80	0.13	3452	12.71	8.79	0.15
	F	2641	11.64	7.32	0.14	2642	11.56	8.97	0.17
ABS4	M	3454	18.07	9.08	0.17	3439	17.14	9.84	0.17
	F	2629	16.35	9.50	0.19	2630	15.84	9.80	0.19
ABS5	M	3450	12.82	6.11	0.10	3449	12.37	6.24	0.11
	F	2632	11.70	5.75	0.11	2627	11.38	6.25	0.12
TABSRC	M	3367	70.35	36.43	0.63	3305	73.50	37.52	0.65
	F	2569	70.90	34.00	0.69	2553	67.00	37.44	0.74

TABLE AP.1.1.2 : DISTRIBUTION OF FINGER PATTERN INTENSITY IN THE KENYA TOTAL SAMPLE BY SEX.

ATTRIBUTE	SEX	NO	RIGHT HAND			NO	LEFT HAND		
			MEAN	S.D.	S.E.		MEAN	S.D.	S.E.
D1	M	3489	1.398	0.582	.010	3496	1.323	0.594	.010
	F	2660	1.332	0.586	.010	2661	1.315	0.628	.012
D2	M	3493	1.298	0.562	.010	3484	1.262	0.565	.010
	F	2661	1.242	0.557	.011	2658	1.245	0.595	.012
D3	M	3497	1.141	0.446	.008	3498	1.143	0.498	.008
	F	2660	1.079	0.427	.008	2667	1.110	0.515	.010
D4	M	3491	1.413	0.528	.010	3500	1.372	0.528	.010
	F	2660	1.314	0.517	.010	2663	1.332	0.547	.011
D5	M	3488	1.144	0.382	.007	3502	1.128	0.378	.006
	F	2667	1.084	0.348	.007	2666	1.115	0.387	.007
TFPI	M	3459	6.392	1.761	.030	3460	6.230	1.833	.031
	F	2645	6.049	1.753	.034	2544	6.114	1.939	.038

TABLE AP.1.1.3 : DISTRIBUTION OF DIGITAL PATTERNS IN THE KENYA TOTAL SAMPLE BY SEX:

ATTRIBUTE	SEX	NO.	RIGHT				HAND				NO.	LEFT				HAND					
			A	AT	UL	RL	CW	DL	UCP	RCP		ACC	A	AT	UL	RL	CW	DL	UCP	RCP	ACC
			Z	Z	Z	Z	Z	Z	Z	Z		Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
P1	M	3489	5.0	9.0	49.7	0.5	19.4	23.9	1.1	0.3	.0	3496	6.7	0.0	53.6	0.7	14.0	24.2	0.3	0.5	.0
	F	2660	6.1	0.0	53.9	0.7	15.7	22.5	0.8	0.3	.0	2661	8.9	0.0	49.0	1.7	13.5	25.4	0.3	1.1	.0
P2	M	3493	5.2	0.4	53.3	6.1	21.1	10.4	1.8	1.6	.1	3484	6.1	1.0	50.6	10.2	10.6	10.4	0.9	2.0	.3
	F	2661	6.4	0.3	50.7	4.1	19.0	8.7	1.7	1.1	.0	2658	8.4	0.9	47.9	10.0	19.4	8.7	1.3	3.3	.1
P3	M	3497	3.9	0.1	77.4	0.7	11.4	3.7	2.1	0.4	.0	3498	6.2	0.3	71.2	1.8	13.4	4.8	1.7	0.6	.1
	F	2660	5.5	0.2	89.7	0.3	0.2	3.2	1.8	0.1	.0	2667	8.4	0.6	69.8	1.8	13.6	3.9	1.4	0.5	.0
P4	M	3491	1.8	0.0	54.6	0.5	30.2	5.5	7.2	0.1	.0	3500	2.2	0.1	57.1	1.2	26.9	6.5	5.5	0.5	.0
	F	2660	2.6	0.0	62.7	0.0	22.2	4.4	6.8	0.4	.0	2663	3.9	0.2	57.6	1.4	25.3	5.1	5.6	1.0	.0
P5	M	3488	1.1	0.0	83.1	0.2	7.2	3.7	4.5	0.1	.0	3502	1.5	0.1	83.8	0.3	7.1	4.2	2.9	0.1	.0
	F	2667	2.2	0.0	87.1	0.1	4.3	2.0	4.1	0.1	.0	2666	2.4	0.1	83.0	0.6	7.2	3.1	3.2	0.3	.0
TOTAL FINGERS	M	17458	3.4	0.1	63.6	1.6	17.9	9.5	3.3	0.5	.05	17480	4.6	0.3	63.2	2.8	16.0	10.0	2.3	0.7	.1
	F	13308	4.5	0.1	60.6	1.2	13.9	8.2	3.0	0.4	.01	13315	6.4	0.4	61.5	3.1	15.8	9.2	2.4	1.2	.0

TOTAL FINGER PATTERNS:

ATTRIBUTE	NO.	RIGHT HAND			NO.	LEFT HAND			
		ARCHES %	LOOPS %	WHORLS %		ARCHES %	LOOPS %	WHORLS %	
P1	M	3489	5.0	50.2	44.8	3496	6.7	54.3	39.0
	F	2660	6.1	54.6	39.3	2661	8.9	50.7	40.4
P2	M	3493	5.6	59.4	34.9	3484	7.1	60.7	32.2
	F	2661	6.7	62.8	30.6	2658	9.3	57.9	32.8
P3	M	3497	3.9	78.1	18.0	3498	6.5	73.0	20.5
	F	2660	5.7	81.0	13.3	2667	9.0	71.6	19.5
P4	M	3491	1.9	55.1	43.1	3500	2.3	58.2	39.5
	F	2660	2.6	63.5	33.9	2663	4.0	58.9	37.1
P5	M	3488	1.1	83.3	15.5	3502	1.6	84.0	14.3
	F	2667	2.2	87.2	10.6	2666	2.5	83.6	13.9
TOTAL	M	17458	3.5	65.2	31.3	17480	4.8	66.1	29.1
FINGERS	F	13308	4.6	69.8	25.5	13315	6.8	64.6	28.7

TABLE 1.1.4 : DISTRIBUTION OF PALMAR RIDGE COUNTS, & INDICES OF PALMAR TRI-RADIAL INTENSITY & THE ATD ANGLE IN THE KENYA TOTAL SAMPLE BY SEX:

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ATTRIBUTE	SEX	NO	RIGHT HAND			NO	LEFT HAND		
			MEAN	S.D.	S.E.		MEAN	S.D.	S.E.
PALMAR RIDGE COUNTS :									
AB	M	3349	36.32	5.69	0.10	3420	37.00	5.43	0.09
	F	2579	36.85	5.34	0.11	2595	37.32	5.27	0.10
BC	M	3139	26.13	5.41	0.10	3119	26.30	5.43	0.10
	F	2407	26.26	5.14	0.11	2360	26.71	5.04	0.10
CD	M	3126	35.66	5.45	0.10	3121	35.59	6.17	0.11
	F	2397	36.04	5.49	0.11	2327	36.35	5.92	0.12
TPRC	M	3215	97.24	12.51	0.22	3323	97.69	13.00	0.23
	F	2512	98.37	11.69	0.23	2533	98.96	12.40	0.25
INDICES OF TRI-RADIAL INTENSITY AND THE ATD ANGLE:									
INTER-DIGITAL	M	2539	4.308	0.626	0.011	3544	4.295	0.626	0.011
	F	2673	4.227	0.569	0.011	2677	4.213	0.564	0.011
TDTHI	M	3503	1.291	0.497	0.008	3500	1.233	0.458	0.008
	F	2654	1.301	0.503	0.010	2652	1.252	0.466	0.009
TPLMI	M	3497	5.720	0.933	0.016	3492	5.899	1.144	0.019
	F	2653	5.659	0.919	0.018	2650	5.778	1.030	0.020
ATD	M	3430	38.36	4.91	0.08	3474	38.46	5.10	0.09
	F	2616	39.95	5.22	0.10	2633	40.10	5.20	0.10

TABLE AP.1.1.5 : DISTRIBUTION OF PALMAR PATTERNS AND TRI-RADII IN THE KENYA TOTAL SAMPLE BY SEX.

FREQUENCY OF THENAR AND HYPOTHENAR PATTERNS:

SEX	HAND	NO	T H E N A R			NO	H Y P O T H E N A R			NO	H Y P O T H E N A R			NO	H Y P O T H E N A R		
			I1	I2	ITOT		IR1	IR2	IRTOT		H1	H2	HTOT		H1	H2	HTOT
			%	%	%		%	%	%		%	%	%		%	%	%
M	RH	3536	5.3	0.2	5.7	3536	6.2	0.2	6.6	3540	5.4	0.1	5.6	3540	22.8	0.3	23.4
F	RH	2674	5.8	0.1	6.0	2674	7.0	0.2	7.4	2674	6.1	0.1	6.3	2674	22.7	0.3	23.3
M	LH	3541	15.9	0.8	17.5	3541	18.8	0.3	19.4	3546	5.5	0.1	5.7	3546	17.1	0.1	17.3
F	LH	2676	14.5	0.2	14.9	2677	16.0	0.2	16.4	2678	6.2	0.0	6.2	2678	18.4	0.1	18.6

FREQUENCIES OF INTERDIGITAL PATTERNS & OF NUMBER OF INTERDIGITAL TRI-RADII:

SEX	HAND	NO	I N T E R D I G I T A L			NO	N O . O F T R I R A D I I (T D 3 T O T D 8 +)			NO	N O . O F T R I R A D I I (T D 3 T O T D 8 +)			NO	N O . O F T R I R A D I I (T D 3 T O T D 8 +)		
			II	III	IV		IV1	IV2	IV3		IV1	IV2	IV3		IV1	IV2	IV3
			%	%	%		%	%	%		%	%	%		%	%	%
M	RH	3542	11.2	3535	46.0	3536	6.7	3535	61.0	2.5	0.0	66.0	3539	2.5	70.2	21.4	5.6
F	RH	2673	5.7	2673	36.3	2673	5.6	2673	68.5	2.9	0.0	74.3	2673	3.0	75.3	18.1	3.3
M	LH	3547	6.6	3545	24.5	3546	8.8	3545	70.6	9.0	0.0	88.6	3544	4.0	67.6	23.6	4.5
F	LH	2677	3.1	2677	20.5	2677	7.0	2677	74.2	7.5	0.1	89.5	2677	4.2	73.3	19.9	2.4

FREQUENCIES OF THENAR, AXIAL AND HYPOTHENAR TRI-RADII :

SEX	HAND	NO	T H E N A R			NO	A X I A L			NO	H Y P O T H E N A R			NO	H Y P O T H E N A R		
			E1	E2	ETOT		1T	2T	TOT T		1T1	2T1	TOT T1		1T2	2T2	TOT T2
			%	%	%		%	%	%		%	%	%		%	%	%
M	RH	3537	2.5	4.4	0.3	3504	50.4	0.4	51.2	3505	50.5	1.3	53.1	3540	1.8	0.1	2.0
F	RH	2674	2.8	4.9	0.2	2654	43.4	0.7	44.8	2654	56.7	1.4	59.5	2675	2.1	0.0	2.1
M	LH	3541	5.6	14.0	1.0	3501	52.2	0.6	53.4	3500	48.2	1.2	50.6	3545	2.0	0.0	2.0
F	LH	2677	4.7	12.7	0.4	2652	46.0	0.6	47.2	2652	54.2	1.5	57.2	2678	2.4	0.0	2.4

TABLE AP.1.1.6 : DISTRIBUTION OF SOME RARE PALMAR PATTERNS AND TRI-RADII IN THE KENYA TOTAL SAMPLE BY SEX :

SEX	HAND	NO	II	NO	III	NO	IV	NO	HR	NO	TR
			%	%	%	%	%	%	%	%	%
M	RH	3541	0.0	3541	0.3	3541	0.4	3541	0.0	3541	0.1
F	RH	2675	0.0	2673	0.4	2673	0.3	2673	0.1	2674	0.05
M	LH	3547	0.0	3547	0.2	3547	0.6	3547	0.1	3546	0.0
F	LH	2677	0.0	2677	0.3	2677	0.7	2677	0.1	2678	0.0

TABLE AP.1.2.1 :DISTRIBUTION OF DIGITAL RIDGE COUNTS AND FINGER PATTERN INTENSITY
IN KENYAN ETHNIC CATEGORIES (MALES):

CATEGORY	NO	FINGER 1		NO	FINGER 2		NO	FINGER 3		NO	FINGER 4		NO	FINGER 5		NO	TOTAL	
		MEAN	SD.		MEAN	SD.		MEAN	SD.		MEAN	SD.		MEAN	SD.		MEAN	SD.
RADIAL RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	596	16.8	6.8	595	16.3	5.4	597	16.8	4.8	594	13.9	5.4	592	12.3	4.4	578	63.6	28.1
NILOTES	864	14.3	6.1	863	9.4	5.3	861	16.3	4.7	862	12.9	5.3	863	11.4	4.5	845	58.2	28.2
BANTU	1925	14.7	6.5	1921	8.9	5.5	1929	16.3	5.6	1923	13.4	5.4	1926	11.5	4.6	1884	58.7	21.0
RADIAL RIDGE COUNTS(LEFT HAND):																		
CUSHITES	595	15.8	5.9	594	9.3	5.4	591	16.9	5.3	594	13.4	5.6	589	12.1	4.2	578	61.8	21.2
NILOTES	863	12.6	6.2	861	8.3	5.3	863	9.9	5.3	863	12.5	5.3	868	11.8	4.4	845	54.4	21.2
BANTU	1928	12.5	6.3	1905	7.8	5.4	1923	9.8	5.3	1916	12.5	5.3	1924	10.9	4.5	1844	53.3	21.5
ULNAR RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	601	7.1	7.9	598	5.1	6.7	601	2.7	5.6	598	5.7	6.7	597	1.6	3.6	587	22.3	22.2
NILOTES	859	5.2	7.2	861	4.1	6.1	866	2.1	4.8	863	4.7	6.1	862	1.3	3.2	847	17.3	19.6
BANTU	1925	6.4	7.7	1931	4.5	6.2	1933	2.8	4.6	1932	4.3	5.9	1938	1.8	2.8	1905	18.1	19.1
ULNAR RIDGE COUNTS(LEFT HAND):																		
CUSHITES	598	6.1	7.6	600	5.3	6.7	599	3.2	5.9	598	5.1	6.6	597	1.7	3.9	584	21.4	22.3
NILOTES	864	4.4	6.9	859	4.6	6.4	864	2.7	5.5	864	4.4	6.1	868	1.4	3.5	853	17.5	19.9
BANTU	1929	5.7	7.5	1928	4.6	6.5	1941	2.4	5.2	1927	4.2	6.2	1938	1.8	3.8	1896	17.8	20.0
UNILATERAL RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	596	16.4	5.9	595	11.5	5.4	597	11.2	4.9	594	14.1	5.3	592	12.4	4.3	578	65.8	28.9
NILOTES	858	14.7	6.0	861	10.5	5.2	868	10.6	4.7	861	13.1	5.2	861	11.4	4.5	835	66.8	28.9
BANTU	1919	15.1	6.5	1928	10.3	5.3	1927	10.5	5.8	1928	13.5	5.4	1926	11.6	4.5	1876	68.8	21.7
UNILATERAL RIDGE COUNTS(LEFT HAND):																		
CUSHITES	593	15.4	5.8	594	10.7	5.4	598	11.4	5.4	593	13.7	5.5	589	12.2	4.2	566	63.3	22.8
NILOTES	862	13.8	6.3	859	9.8	5.3	863	10.4	5.3	861	12.8	5.1	868	11.1	4.4	842	57.2	21.7
BANTU	1918	13.3	6.4	1908	9.6	5.5	1923	10.1	5.4	1907	12.7	5.2	1922	10.9	4.5	1822	56.4	22.3
ABSOLUTE RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	596	23.2	11.9	595	15.4	9.6	597	13.5	8.4	594	19.6	10.5	592	13.9	6.4	578	86.1	38.2
NILOTES	858	19.5	11.1	861	13.5	8.7	868	12.4	7.6	861	17.7	9.7	861	12.7	6.2	835	75.4	35.2
BANTU	1919	21.1	12.1	1928	13.5	8.9	1927	12.2	7.7	1928	17.7	9.7	1926	12.5	5.9	1876	76.8	36.8
ABSOLUTE RIDGE COUNTS(LEFT HAND):																		
CUSHITES	593	21.1	11.5	594	14.6	9.8	598	14.1	9.2	593	18.6	10.5	589	13.8	6.5	566	82.6	39.4
NILOTES	862	17.8	11.8	859	12.8	9.1	863	12.6	8.6	861	17.8	9.6	868	12.4	6.3	842	71.9	36.2
BANTU	1918	18.2	11.5	1908	12.4	9.1	1923	12.2	8.7	1907	16.7	9.7	1922	11.9	6.8	1822	78.8	37.8
FINGER PATTERN INTENSITY(RIGHT HAND):																		
CUSHITES	604	1.467	.562	603	1.355	.568	603	1.191	.452	602	1.486	.529	599	1.167	.488	595	6.674	1.754
NILOTES	868	1.358	.558	871	1.288	.548	872	1.134	.441	871	1.489	.543	865	1.163	.394	868	6.323	1.737
BANTU	1938	1.397	.599	1948	1.288	.563	1943	1.127	.444	1948	1.388	.519	1945	1.128	.368	1925	6.328	1.753
FINGER PATTERN INTENSITY(LEFT HAND):																		
CUSHITES	604	1.391	.558	603	1.337	.577	603	1.281	.517	604	1.414	.529	603	1.168	.484	600	6.585	1.878
NILOTES	871	1.248	.574	867	1.261	.551	878	1.135	.588	871	1.389	.542	872	1.158	.388	864	6.182	1.885
BANTU	1943	1.332	.611	1936	1.235	.568	1947	1.125	.486	1947	1.346	.528	1949	1.185	.368	1918	6.144	1.825

TABLE AP.1.2.2 DISTRIBUTION OF DIGITAL RIDGE COUNTS AND FINGER PATTERN INTENSITY
IN KENYAN ETHNIC CATEGORIES (FEMALES):

CATEGORY	NO	FINGER 1		NO	FINGER 2		NO	FINGER 3		NO	FINGER 4		NO	FINGER 5		NO	TOTAL	
		MEAN	SD.		MEAN	SD.		MEAN	SD.		MEAN	SD.		MEAN	SD.		MEAN	SD.
RADIAL RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	324	14.5	5.7	320	9.7	5.2	319	10.2	4.6	322	13.0	5.5	322	11.4	4.5	312	50.5	19.6
NILOTES	775	13.1	5.8	773	9.4	5.0	771	10.0	4.6	769	12.4	5.6	774	10.9	4.7	764	55.8	20.3
BANTU	1526	13.2	6.3	1530	8.9	5.2	1537	10.1	4.9	1530	13.0	5.7	1522	10.9	4.7	1480	55.9	21.3
RADIAL RIDGE COUNTS(LEFT HAND):																		
CUSHITES	326	13.3	6.0	325	8.3	5.2	326	9.5	5.4	324	12.5	5.4	323	11.2	4.5	314	54.6	20.9
NILOTES	773	11.0	6.0	765	7.7	5.1	770	9.1	5.4	766	11.7	5.7	771	10.2	4.7	752	49.7	21.7
BANTU	1532	11.2	6.1	1528	7.1	5.2	1535	8.9	5.4	1530	11.6	5.6	1523	10.0	4.6	1492	48.7	21.8
ULNAR RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	325	5.5	4.8	322	4.2	6.4	320	1.8	4.8	322	4.3	6.1	324	1.1	2.7	317	17.0	10.9
NILOTES	775	4.3	6.6	775	3.0	6.2	774	1.6	4.4	772	4.0	6.0	777	0.8	2.6	766	14.3	19.2
BANTU	1534	5.4	7.1	1537	4.0	6.1	1543	1.4	4.1	1535	3.1	5.3	1538	0.6	2.2	1518	14.6	17.7
ULNAR RIDGE COUNTS(LEFT HAND):																		
CUSHITES	327	6.1	7.2	327	4.9	6.5	328	2.9	5.8	326	4.4	6.1	326	1.3	3.4	323	19.6	20.3
NILOTES	775	4.3	6.6	773	4.7	6.6	773	2.7	5.6	774	4.4	6.3	775	1.3	3.4	766	17.4	21.0
BANTU	1533	6.0	7.4	1532	5.1	6.8	1540	2.4	5.2	1539	3.9	5.9	1536	1.1	3.1	1514	18.2	19.9
UNILATERAL RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	324	14.8	5.6	319	10.9	5.3	319	10.5	4.0	322	13.2	5.3	322	11.5	4.4	311	60.4	20.4
NILOTES	774	13.5	5.7	772	10.3	5.2	771	10.2	4.8	768	12.2	5.5	774	10.9	4.7	761	57.3	21.0
BANTU	1523	13.7	6.3	1529	10.0	5.2	1537	10.2	5.0	1525	13.1	5.6	1522	10.9	4.7	1484	57.7	22.0
UNILATERAL RIDGE COUNTS(LEFT HAND):																		
CUSHITES	326	13.9	5.9	325	9.9	5.4	326	9.9	5.6	324	12.8	5.3	323	11.3	4.4	314	57.6	21.4
NILOTES	773	11.6	6.1	765	9.4	5.5	769	9.5	5.6	766	12.1	5.5	771	10.3	4.6	751	53.0	22.5
BANTU	1526	12.3	6.1	1520	9.1	5.7	1534	9.3	5.5	1526	11.8	5.5	1519	10.1	4.6	1476	52.4	22.8
ABSOLUTE RIDGE COUNTS(RIGHT HAND):																		
CUSHITES	324	20.0	10.5	319	13.9	9.0	319	12.0	7.5	322	17.3	9.9	322	12.5	5.8	311	75.5	34.5
NILOTES	774	17.5	10.3	772	13.2	9.0	771	11.6	7.5	768	16.4	9.9	774	11.7	5.9	761	70.0	35.2
BANTU	1523	18.6	11.3	1529	12.9	8.9	1537	11.6	7.2	1525	16.1	9.2	1522	11.5	5.7	1483	70.4	34.7
ABSOLUTE RIDGE COUNTS(LEFT HAND):																		
CUSHITES	326	19.3	10.9	326	13.2	9.3	326	12.4	9.4	324	16.9	9.6	323	12.6	6.1	314	74.3	36.4
NILOTES	773	15.3	10.5	764	12.4	9.5	769	11.8	9.2	766	16.2	10.1	771	11.5	6.5	751	67.3	37.9
BANTU	1526	17.2	11.3	1520	12.2	9.7	1534	11.3	8.8	1526	15.5	9.7	1519	11.1	6.1	1476	66.9	37.3
FINGER PATTERN INTENSITY(RIGHT HAND):																		
CUSHITES	326	1.407	.562	325	1.255	.561	323	1.110	.423	325	1.305	.506	327	1.141	.390	320	6.306	1.756
NILOTES	777	1.270	.563	774	1.244	.527	776	1.006	.430	775	1.330	.520	777	1.005	.360	773	6.017	1.756
BANTU	1543	1.344	.602	1546	1.240	.572	1547	1.066	.425	1546	1.289	.511	1549	1.072	.331	1538	6.009	1.745
FINGER PATTERN INTENSITY(LEFT HAND):																		
CUSHITES	320	1.409	.590	320	1.305	.573	329	1.140	.520	327	1.302	.540	320	1.143	.392	325	6.379	1.001
NILOTES	777	1.230	.622	774	1.239	.570	777	1.129	.517	776	1.353	.551	777	1.113	.406	771	6.060	1.946
BANTU	1542	1.337	.634	1542	1.234	.610	1547	1.094	.511	1546	1.311	.547	1547	1.109	.375	1534	6.089	1.945

TABLE AP.1.2.4 : DISTRIBUTION OF DIGITAL PATTERNS IN KENYAN ETHNIC CATEGORIES (FEMALES):

ATTRIBUTE	NO.	RIGHT HAND										NO	LEFT HAND									
		A %	AT %	UL %	RL %	CW %	DL %	UCP %	RCP %	ACC %	A %		AT %	UL %	RL %	CW %	DL %	UCP %	RCP %	ACC %		
FINGER 1:																						
CUSHITES	326	3.7	0.0	52.1	0.0	22.7	19.3	1.8	0.3	.0	328	5.8	0.0	47.3	0.3	21.3	23.2	0.9	1.2	.0		
NILOTES	777	5.8	0.0	60.0	0.6	14.3	18.1	0.9	0.3	.0	777	10.4	0.0	55.2	0.9	11.1	20.8	0.4	1.2	.0		
BANTU	1543	6.8	0.0	51.1	0.0	14.0	25.5	0.5	0.4	.0	1542	8.9	0.0	46.2	2.3	13.0	28.3	0.2	1.1	.0		
FINGER 2:																						
CUSHITES	323	6.2	0.0	50.2	4.0	20.0	0.6	1.0	1.2	.0	328	5.8	1.2	49.7	7.0	21.3	11.3	1.5	2.1	.0		
NILOTES	776	4.6	0.1	62.4	3.9	19.1	6.7	1.9	1.3	.0	774	7.1	1.2	51.4	9.3	18.5	7.0	1.8	3.7	.0		
BANTU	1546	7.2	0.5	56.8	4.3	18.8	9.8	1.6	1.0	.0	1542	9.6	0.8	45.8	11.0	19.4	8.9	1.0	3.3	.3		
FINGER 3:																						
CUSHITES	323	3.7	0.0	80.5	0.3	9.3	3.1	3.1	0.0	.0	329	7.9	0.3	69.0	0.9	17.0	3.6	1.2	0.0	.0		
NILOTES	776	5.3	0.0	80.7	0.1	9.0	2.3	2.4	0.1	.0	777	7.7	0.4	69.5	1.8	14.3	4.2	1.7	0.4	.0		
BANTU	1547	5.9	0.3	80.9	0.3	7.6	3.7	1.1	0.1	.1	1547	8.8	0.8	70.1	2.0	12.6	3.7	1.3	0.6	.0		
FINGER 4:																						
CUSHITES	325	0.9	0.0	58.8	0.9	29.8	4.3	4.9	0.3	.0	327	2.8	0.0	55.7	0.6	27.5	5.8	7.0	0.6	.0		
NILOTES	775	2.8	0.1	60.0	1.2	24.3	3.6	7.2	0.6	.1	774	3.7	0.3	55.2	1.0	27.2	3.0	7.3	1.5	.0		
BANTU	1546	2.8	0.0	65.1	0.5	19.5	4.9	6.9	0.3	.1	1546	4.2	0.1	59.1	1.3	24.1	6.0	4.5	0.8	.0		
FINGER 5:																						
CUSHITES	327	1.5	0.3	82.3	0.3	7.3	2.1	5.8	0.3	.0	328	1.5	0.3	82.3	0.0	9.1	3.0	3.7	0.0	.0		
NILOTES	777	2.6	0.0	86.2	0.1	4.0	1.8	4.4	0.0	.1	777	3.2	0.0	81.2	1.0	7.6	2.7	3.9	0.4	.0		
BANTU	1549	2.1	0.0	88.8	0.1	3.6	2.0	3.6	0.1	.0	1547	2.2	0.1	84.1	0.5	6.6	3.2	2.8	0.4	.0		
TOTAL FINGERS:																						
CUSHITES	1626	3.2	0.1	66.4	1.1	17.8	7.5	3.5	0.4	.0	1640	4.8	0.4	60.8	1.8	19.3	9.4	2.9	0.8	.0		
NILOTES	3881	4.2	0.1	69.9	1.2	14.3	6.5	3.4	0.5	.1	3881	6.4	0.4	62.5	3.0	15.7	7.5	3.0	1.4	.0		
BANTU	7731	5.0	0.1	60.5	1.2	12.9	9.2	2.8	0.4	.0	7724	6.7	0.4	61.1	3.4	15.1	10.0	2.0	1.2	.0		
TOTAL PATTERNS ON ALL FINGERS:																						
CATEGORY	NO	RIGHT HAND			NO	LEFT HAND																
		ARCHES %	LOOPS %	WHORLS %		ARCHES %	LOOPS %	WHORLS %														
CUSHITES	1626	3.3	67.5	29.3	1640	5.1	62.6	32.3														
NILOTES	3881	4.3	71.0	24.7	3881	6.8	65.5	27.7														
BANTU	7731	5.1	69.7	25.2	7724	7.1	64.5	28.4														

TABLE AP.1.2.5 : DISTRIBUTION OF PALMAR RIDGE COUNTS IN KENYAN ETHNIC CATEGORIES.

CATEGORY	NO	AD			BC			CD			TOTAL		
		MEAN	SD.	NO	MEAN	SD.	NO	MEAN	SD.	NO	MEAN	SD.	
RIGHT HAND MALES:													
CUSHITES	572	35.8	5.8	533	25.2	5.6	531	35.5	5.4	549	95.4	12.8	
NILOTES	821	37.0	5.5	788	26.3	5.5	780	36.1	5.4	808	98.5	12.7	
BANTU	1883	36.2	5.7	1739	26.4	5.3	1740	35.5	5.4	1787	97.2	12.5	
LEFT HAND MALES:													
CUSHITES	583	36.3	5.8	544	25.5	5.8	537	35.5	6.2	566	96.2	13.7	
NILOTES	841	37.7	5.3	777	26.2	5.6	777	35.7	6.8	827	98.5	13.1	
BANTU	1920	36.9	5.4	1726	26.6	5.2	1736	35.5	6.3	1857	97.8	12.9	
RIGHT HAND FEMALES:													
CUSHITES	318	36.2	4.8	305	25.2	5.1	305	35.6	5.6	315	96.6	11.8	
NILOTES	761	37.2	5.4	713	26.3	5.5	709	36.6	5.7	747	99.3	12.8	
BANTU	1486	36.8	5.4	1376	26.5	4.9	1369	35.8	5.4	1437	98.3	11.7	
LEFT HAND FEMALES:													
CUSHITES	323	36.5	5.1	304	25.8	5.1	291	35.4	6.1	307	96.6	12.1	
NILOTES	756	37.5	5.2	686	26.6	5.3	680	36.8	6.8	740	99.5	12.4	
BANTU	1502	37.4	5.4	1357	27.0	4.9	1343	36.3	5.8	1472	99.2	12.5	

TABLE AP.1.2.6 : DISTRIBUTION OF PALMAR INDICES OF TRIRADIAL INTENSITY & THE ATD ANGLE IN KENYAN ETHNIC CATEGORIES.

CATEGORY	INTERDIGITAL			HYPOTHENAR			TOTAL PALMAR			ATD ANGLE		
	NO	MEAN	SD.	NO	MEAN	SD.	NO	MEAN	SD.	NO	MEAN	SD.
RIGHT HAND MALES:												
CUSHITES	602	4.244	.620	601	1.310	.517	600	5.637	0.894	589	36.9	4.7
MILOTES	873	4.283	.594	860	1.304	.504	856	5.716	0.913	852	38.4	4.8
BANTU	1985	4.343	.643	1963	1.281	.489	1962	5.751	0.947	1911	38.8	5.0
LEFT HAND MALES:												
CUSHITES	602	4.256	.617	603	1.265	.478	599	5.731	0.991	588	37.3	4.9
MILOTES	873	4.300	.605	859	1.211	.425	857	5.913	1.162	864	38.3	5.1
BANTU	1990	4.305	.643	1960	1.232	.466	1958	5.942	1.176	1946	38.9	5.2
RIGHT HAND FEMALES:												
CUSHITES	328	4.195	.557	337	1.327	.495	326	5.592	0.832	323	39.0	4.7
MILOTES	778	4.210	.564	771	1.323	.528	771	5.695	0.984	765	39.5	5.3
BANTU	1553	4.242	.575	1542	1.282	.486	1542	5.653	0.903	1514	40.4	5.2
LEFT HAND FEMALES:												
CUSHITES	331	4.170	.546	329	1.295	.513	329	5.599	0.825	323	39.2	4.8
MILOTES	778	4.219	.568	771	1.250	.463	769	5.819	1.068	769	39.5	5.1
BANTU	1554	4.216	.566	1538	1.243	.457	1538	5.797	1.048	1527	40.6	5.3

TABLE AP.1.2.7 : DISTRIBUTION OF PALMAR PATTERNS IN KENYAN ETHNIC CATEGORIES.

	NO	RIGHT HAND								NO	LEFT HAND							
		I	IR	II	III	IIII	IV	H	H		I	IR	II	III	IIII	IV	H	H
		%	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%
MALES:																		
CUSHITES	608	3.5	4.8	10.0	43.4	7.7	61.5	5.0	25.9	345	9.8	11.3	5.6	23.6	8.7	85.7	4.8	21.5
MILOTES	875	6.2	6.3	8.8	47.5	7.6	63.3	5.8	24.6	875	19.9	20.0	5.0	23.5	10.2	90.0	5.3	15.5
BANTU	1991	5.7	6.9	12.7	46.2	5.8	69.2	5.8	22.0	1991	18.7	21.4	7.5	25.1	8.3	88.7	6.1	16.9
FEMALES:																		
CUSHITES	334	3.0	3.7	4.6	36.3	5.2	71.3	7.0	24.6	334	5.7	6.6	1.8	22.1	5.7	86.1	6.6	22.1
MILOTES	779	7.5	8.9	5.5	35.3	6.3	73.3	6.5	25.6	779	17.0	18.0	3.1	20.0	8.0	89.6	6.4	18.5
BANTU	1557	5.9	7.5	6.1	36.4	5.3	75.7	5.7	21.8	1557	16.1	17.8	3.3	20.3	6.7	90.0	6.2	18.0

TABLE AP.1.2.8 : DISTRIBUTION OF PALMAR TRIRADII IN KENYAN ETHNIC CATEGORIES.

	NO	RIGHT HAND					NO	LEFT HAND				
		E	T	T'	T''	TB		E	T	T'	T''	TB
		%	%	%	%	%		%	%	%	%	%
MALES:												
CUSHITES	608	8.3	58.2	45.7	1.5	25.7	608	21.1	59.9	43.5	1.7	21.5
MILOTES	875	12.5	50.1	54.7	1.8	23.8	875	39.0	52.8	50.9	1.9	15.2
BANTU	1991	12.6	49.2	55.0	2.4	21.6	1991	40.0	51.9	52.4	2.4	16.4
FEMALES:												
CUSHITES	334	6.7	53.2	52.6	0.9	25.8	334	12.4	55.9	49.5	1.2	22.7
MILOTES	779	16.3	43.5	62.1	2.2	24.6	779	35.0	40.0	57.3	1.9	17.8
BANTU	1557	13.3	43.6	59.9	2.4	22.0	1557	33.8	44.7	59.0	3.1	17.5

TABLE AP.1.2.9 : THE FREQUENCY OF INTERDIGITAL TRIRADII IN KENYAN ETHNIC CATEGORIES.

	NO	RIGHT HAND					NO	LEFT HAND				
		3	4	5	6	7 8+		3	4	5	6	7 8+
		%	%	%	%	%		%	%	%	%	%
MALES:												
CUSHITES	602	2.8	76.4	15.0	5.1	0.7	602	3.7	72.6	18.6	4.8	0.3
MILOTES	873	2.5	71.4	21.6	4.2	0.2	873	3.3	67.6	25.1	3.8	0.2
BANTU	1985	2.5	67.6	23.3	6.5	0.2	1990	4.5	65.8	24.6	4.8	0.3
FEMALES:												
CUSHITES	328	3.0	78.4	15.2	2.7	0.6	331	4.5	75.8	17.2	2.1	0.3
MILOTES	778	3.9	74.7	18.4	3.0	0.0	778	4.0	73.3	20.1	2.4	0.1
BANTU	1553	2.6	75.0	18.5	3.6	0.3	1554	4.2	72.8	20.2	2.5	0.1

Table AP. 1.3.1 : Distribution of digital ridge counts in Kenyan ethnic group samples (males).

	POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
		NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
Radial Right	SOMALI	369	16.0	5.8	368	10.5	5.4	370	10.9	4.7	369	13.9	5.3	366	12.2	4.4
	CUSHITIC	217	16.2	6.6	217	10.0	5.5	217	10.7	5.0	215	14.0	5.5	216	12.6	4.4
	MAASAI	185	14.7	6.4	183	10.3	5.5	184	10.3	4.9	183	12.9	5.5	184	11.5	4.5
	DOROB	79	17.0	5.9	79	11.2	6.0	78	11.9	4.4	79	14.2	5.6	79	12.4	4.9
	KALENJIN	395	14.1	5.9	394	9.2	5.1	393	10.4	4.4	393	12.8	5.1	396	11.3	4.4
	KARIMOJONG	114	13.7	6.4	117	8.7	5.8	116	9.6	5.3	117	12.6	5.9	114	11.1	4.7
	LUO	169	14.5	5.7	168	9.5	5.1	167	10.4	4.7	168	13.6	5.2	168	11.7	4.5
	LUYIA	421	14.4	6.5	421	8.9	5.5	420	10.6	4.9	418	13.6	5.4	419	11.7	4.5
	CENTRAL BANTU	973	15.0	6.4	969	8.9	5.4	974	10.1	4.9	971	13.1	5.5	973	11.3	4.5
	POKOMO	132	14.4	6.4	131	9.3	5.9	132	10.5	5.2	131	13.7	5.1	133	12.2	4.7
Radial Left	MJI KENDA	273	14.6	6.7	274	9.1	5.3	275	10.7	5.0	276	14.6	5.1	275	12.2	4.5
	TAITA	111	13.6	7.0	111	8.3	5.4	113	9.2	5.2	112	11.9	5.6	111	10.6	4.8
	SOMALI	368	15.2	5.6	366	9.7	5.4	365	11.3	5.1	368	13.5	5.5	364	12.0	4.2
	CUSHITIC	217	14.6	6.4	219	8.7	5.5	216	10.4	5.5	216	13.5	5.7	215	12.4	4.2
	MAASAI	184	13.0	6.5	183	9.0	5.2	183	9.8	5.5	184	12.2	5.8	181	11.3	4.6
	DOROB	77	15.5	5.6	78	10.4	5.7	76	12.0	4.9	78	13.6	5.3	78	11.5	5.3
	KALENJIN	395	12.6	6.0	392	8.0	5.3	393	10.1	5.2	395	12.5	4.9	394	11.0	4.3
	KARIMOJONG	115	12.0	6.4	116	7.8	5.4	117	9.1	5.7	114	12.3	5.5	115	10.7	4.2
	LUO	168	12.6	6.2	169	8.5	5.4	169	10.2	5.2	169	13.1	5.3	169	11.1	4.6
	LUYIA	422	12.3	6.4	421	8.2	5.4	425	10.0	5.2	421	12.9	5.1	424	11.1	4.3
Ulnar Right	CENTRAL BANTU	971	12.9	6.3	965	7.6	5.4	973	9.5	5.4	964	12.1	5.4	969	10.7	4.6
	POKOMO	133	12.3	5.8	131	7.9	5.5	131	9.6	5.5	133	12.7	5.2	134	11.4	4.5
	MJI KENDA	270	12.0	6.5	266	8.0	5.4	273	10.8	4.8	274	13.4	4.9	272	11.1	4.1
	TAITA	109	12.1	6.8	107	7.2	5.5	106	9.1	5.2	109	11.4	5.3	110	10.1	5.1
	SOMALI	372	7.2	7.8	370	5.3	6.5	373	2.8	5.6	371	5.9	6.8	370	1.6	3.6
	CUSHITIC	218	7.2	8.1	217	4.9	7.0	217	2.6	5.5	216	5.5	6.6	216	1.7	3.7
	MAASAI	183	5.6	7.2	183	4.1	6.4	185	2.2	5.1	184	4.8	6.3	184	1.5	3.4
	DOROB	79	6.6	7.8	79	6.7	6.7	79	2.7	5.4	79	5.9	6.6	79	1.4	3.4
	KALENJIN	392	4.2	6.7	393	4.3	6.0	395	1.9	4.7	394	4.8	6.3	395	1.3	3.2
	KARIMOJONG	116	6.6	7.7	117	4.0	5.5	117	2.2	4.6	117	5.0	5.9	116	1.2	2.8
Ulnar Left	LUO	168	6.1	7.6	168	3.8	6.2	169	2.2	4.9	168	4.3	5.8	167	1.2	3.2
	LUYIA	420	6.0	7.6	421	5.0	6.4	422	2.1	4.7	422	4.5	5.9	423	1.0	2.7
	CENTRAL BANTU	971	6.3	7.5	976	4.2	6.0	975	1.8	4.5	974	4.1	5.8	978	1.0	2.9
	POKOMO	132	5.3	7.2	131	4.5	6.4	132	2.1	4.9	132	4.8	6.4	133	1.7	3.6
	MJI KENDA	275	8.2	8.3	276	5.4	6.8	276	2.5	5.1	276	4.9	6.1	276	0.9	2.8
	TAITA	112	5.5	7.8	112	3.5	5.4	113	1.3	3.9	113	3.0	5.1	113	0.5	1.9
	SOMALI	370	6.4	7.6	371	5.3	6.6	370	2.9	5.8	371	5.3	6.7	370	1.6	3.8
	CUSHITIC	217	5.8	7.7	218	5.4	6.8	218	3.6	6.1	216	5.0	6.6	217	1.8	4.1
	MAASAI	184	4.7	7.0	183	4.7	6.5	184	2.4	5.4	184	4.7	6.4	185	1.7	3.9
	DOROB	77	6.7	7.9	78	6.0	7.2	78	4.0	6.9	78	6.2	7.0	78	2.1	4.3
Unilateral Right	KALENJIN	395	3.6	6.5	391	4.6	6.4	394	2.8	5.5	394	4.6	6.1	396	1.2	3.2
	KARIMOJONG	116	5.6	7.7	116	3.2	5.3	117	2.1	4.6	117	4.3	5.9	117	1.7	1.9
	LUO	169	5.0	7.2	169	5.3	6.8	169	3.1	5.9	169	3.9	5.7	169	1.2	3.2
	LUYIA	421	4.6	7.2	422	4.8	6.6	425	2.2	5.0	422	4.2	6.2	425	0.9	2.8
	CENTRAL BANTU	975	5.7	7.4	978	4.5	6.3	980	2.5	5.2	972	4.3	6.1	977	1.1	3.1
	POKOMO	133	5.0	7.1	133	5.1	6.9	134	2.5	5.6	134	3.7	6.2	133	1.2	3.4
	MJI KENDA	272	7.7	8.1	270	5.0	7.0	276	2.7	5.6	271	4.5	6.3	275	1.0	3.0
	TAITA	113	5.5	7.7	110	3.2	5.5	111	1.8	4.6	113	3.0	5.6	113	0.5	2.1
	SOMALI	369	16.3	5.6	368	11.8	5.1	370	11.4	4.9	369	14.1	5.2	366	12.3	4.3
	CUSHITIC	217	16.6	6.4	217	11.0	5.8	217	11.1	5.0	215	14.2	5.4	216	12.7	4.3
Unilateral Left	MAASAI	183	15.0	6.3	183	11.3	5.5	184	10.4	5.0	183	13.1	5.4	184	11.5	4.5
	DOROB	79	17.3	5.7	79	12.5	5.5	78	12.4	4.2	79	14.4	5.6	79	12.4	4.9
	KALENJIN	392	14.4	5.9	392	10.3	4.9	392	10.8	4.5	392	13.0	5.0	395	11.4	4.4
	KARIMOJONG	114	14.3	6.3	117	9.8	5.5	116	10.3	5.0	117	12.8	5.6	114	11.1	4.7
	LUO	168	15.0	5.8	168	10.7	5.1	167	10.6	4.6	168	13.6	5.1	167	11.7	4.5
	LUYIA	420	14.8	6.4	421	10.7	5.2	420	10.8	4.9	418	13.8	5.4	419	11.8	4.5
	CENTRAL BANTU	968	15.4	6.4	968	10.2	5.2	972	10.3	4.9	968	13.2	5.4	973	11.3	4.5
	POKOMO	132	14.6	6.4	131	10.5	5.8	132	10.8	5.2	131	13.8	5.2	133	12.3	4.6
	MJI KENDA	273	15.3	6.6	274	10.5	5.5	275	11.0	5.0	276	14.7	5.1	275	12.2	4.5
	TAITA	111	14.2	7.0	111	9.0	5.3	113	9.6	5.1	112	12.1	5.6	111	10.7	4.4
Absolute Right	SOMALI	366	15.5	5.5	366	11.0	5.2	364	11.7	5.3	368	13.7	5.4	364	12.1	4.2
	CUSHITIC	217	15.1	6.4	218	10.1	5.8	216	10.9	5.5	215	13.7	5.7	215	12.4	4.2
	MAASAI	184	13.4	6.5	183	10.1	5.3	183	10.1	5.7	183	12.5	5.7	181	11.4	4.6
	DOROB	77	16.1	5.3	78	12.2	5.5	76	12.7	5.2	78	14.1	5.2	78	11.8	5.1
	KALENJIN	394	13.0	6.0	390	9.7	5.3	393	10.6	5.2	394	12.8	4.8	394	11.0	4.3
	KARIMOJONG	115	12.6	6.7	116	8.7	5.4	117	9.6	5.4	114	12.6	5.3	115	10.9	4.3
	LUO	168	13.0	6.3	169	10.7	5.1	169	10.8	5.1	169	13.2	5.1	169	11.2	4.5
	LUYIA	420	12.9	6.5	421	10.1	5.4	425	10.3	5.2	419	13.1	5.1	424	11.1	4.3
	CENTRAL BANTU	965	13.5	6.4	964	9.4	5.4	973	9.9	5.4	960	12.4	5.3	968	10.7	4.6
	POKOMO	133	13.0	5.7	131	9.8	5.6	131	10.1	5.7	133	12.9	5.1	133	11.4	4.5
Absolute Left	MJI KENDA	268	13.5	6.5	262	9.8	5.8	273	11.0	5.0	271	13.5	4.8	272	11.1	4.1
	TAITA	109	13.3	6.7	107	8.8	5.3	106	9.3	5.3	109	11.6	5.3	110	10.1	5.1
	SOMALI	369	23.3	11.6	368	15.8	9.1	370	13.7	8.2	369	19.8	10.4	366	13.8	6.2
	CUSHITIC	217	23.4	12.5	217	14.9	10.3	217	13.3	8.8	215	13.6	10.5	216	14.3	6.6
	MAASAI	183	20.3	11.4	183	14.4	9.3	184	12.5	8.5	183	17.8	10.2	184	13.0	6.5
	DOROB	79	23.6	11.2	79	17.9	10.3	78	14.7	7.2	79	20.1	10.6	79	13.8	6.7
	KALENJIN	392	18.3	10.5	392	13.4	8.6	392	12.3							

Table AP. 1.3.2. : Distribution of digital ridge counts in Kenyan ethnic group samples (females).

	POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
		NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
Radial Right	SOMALI	148	14.7	5.5	147	10.3	4.8	145	10.4	4.4	147	13.0	5.4	146	11.5	4.2
	CUSHITIC	174	14.4	5.8	171	9.1	5.5	172	10.1	4.8	173	13.0	5.5	174	11.4	4.7
	MAASAI	192	13.2	5.8	193	9.7	5.3	191	10.0	4.9	192	12.8	6.0	192	11.1	5.0
	KALENJIN	377	13.1	5.8	377	9.0	4.8	376	9.7	4.5	372	11.9	5.3	376	10.4	4.5
	KARIMOJONG	90	13.8	5.5	87	10.1	5.5	88	10.9	4.6	89	12.8	5.7	90	11.6	4.8
	LUO	107	12.6	5.9	107	9.6	4.8	107	10.4	4.4	107	13.3	5.6	107	11.4	4.9
	LUVIA	362	12.8	5.9	359	8.4	5.0	364	9.9	4.8	361	13.3	5.4	361	11.3	4.6
	CENTRAL BANTU	800	13.6	6.3	805	9.1	5.1	807	10.1	4.9	802	12.4	5.7	798	10.5	4.8
	POKOMO	90	11.7	6.9	89	8.4	5.3	90	9.8	5.1	90	13.9	6.3	89	12.1	5.0
	MJI KENDA	173	13.1	6.9	174	9.3	5.4	173	11.1	4.8	174	14.7	5.4	172	11.6	4.5
	TAITA	91	12.4	6.3	93	9.1	5.4	93	10.0	5.1	93	12.4	5.5	92	10.4	4.2
POPULATION		FINGER ONE NO MEAN SD		FINGER TWO NO MEAN SD		FINGER THREE NO MEAN SD		FINGER FOUR NO MEAN SD		FINGER FIVE NO MEAN SD						
Radial Left	SOMALI	149	13.9	5.6	149	9.6	4.9	147	10.0	5.0	147	12.8	5.1	146	11.4	4.4
	CUSHITIC	175	12.7	6.3	174	7.2	5.2	177	9.0	5.6	175	12.3	5.5	175	11.1	4.8
	MAASAI	195	10.9	5.9	191	8.0	5.6	193	9.0	5.9	191	12.0	6.1	192	10.7	4.9
	KALENJIN	373	11.2	6.1	368	7.2	5.0	371	8.7	5.1	369	11.2	5.5	374	9.6	4.7
	KARIMOJONG	89	10.5	5.8	90	8.1	5.2	90	10.1	5.4	90	11.8	5.2	89	10.2	4.5
	LUO	107	10.7	6.2	107	8.2	5.1	107	9.9	4.9	107	12.7	5.7	107	11.1	4.4
	LUVIA	361	10.8	6.0	362	6.9	5.3	364	8.5	5.5	362	11.7	5.4	362	10.2	4.5
	CENTRAL BANTU	805	11.7	5.9	804	7.0	5.2	805	8.8	5.4	802	11.1	5.6	797	9.8	4.7
	POKOMO	90	9.7	6.3	88	6.9	5.6	90	9.2	5.7	90	12.4	6.5	89	10.9	5.1
	MJI KENDA	174	10.9	7.0	171	8.0	4.8	173	10.3	5.3	173	13.5	5.2	174	10.5	4.3
	TAITA	92	10.3	5.9	93	6.9	5.0	93	8.8	5.3	93	11.0	5.4	91	9.5	4.7
POPULATION		FINGER ONE NO MEAN SD		FINGER TWO NO MEAN SD		FINGER THREE NO MEAN SD		FINGER FOUR NO MEAN SD		FINGER FIVE NO MEAN SD						
Ulnar Right	SOMALI	148	6.5	7.2	147	4.2	6.7	146	1.9	5.0	147	4.6	6.1	147	1.2	2.7
	CUSHITIC	175	4.7	6.4	173	4.3	6.3	172	1.8	4.6	173	4.1	6.0	175	1.0	2.7
	MAASAI	193	5.0	6.8	194	4.5	6.6	194	1.6	4.3	194	4.1	6.1	194	1.0	3.0
	KALENJIN	377	3.7	6.2	376	2.9	5.4	376	1.1	3.7	374	3.5	5.5	377	0.6	2.1
	KARIMOJONG	89	5.4	7.1	89	4.4	6.5	88	2.3	6.6	89	4.3	6.1	90	0.9	3.0
	LUO	107	4.1	7.1	107	4.8	6.9	107	2.4	5.5	106	4.9	6.9	107	1.2	3.1
	LUVIA	363	5.0	7.3	361	4.0	6.1	365	1.5	4.4	365	3.0	5.4	365	0.7	2.3
	CENTRAL BANTU	806	5.2	6.9	809	3.6	5.7	811	1.1	3.5	803	2.8	4.9	808	0.5	2.0
	POKOMO	90	5.3	7.0	90	3.8	6.2	90	1.5	4.3	90	4.0	5.8	90	0.5	1.9
	MJI KENDA	174	7.7	7.9	174	6.3	7.1	174	2.8	5.5	174	4.6	5.8	173	0.9	2.7
	TAITA	91	5.1	6.5	93	3.8	6.3	93	1.4	3.9	93	3.4	5.4	92	0.8	2.6
POPULATION		FINGER ONE NO MEAN SD		FINGER TWO NO MEAN SD		FINGER THREE NO MEAN SD		FINGER FOUR NO MEAN SD		FINGER FIVE NO MEAN SD						
Ulnar Left	SOMALI	149	6.9	7.3	149	4.5	6.4	149	2.9	5.6	148	4.5	6.1	148	1.2	3.2
	CUSHITIC	176	5.3	7.0	176	5.4	6.7	177	3.0	6.0	176	4.3	6.2	176	1.4	3.5
	MAASAI	196	5.0	7.0	193	5.6	7.2	194	3.1	5.9	194	4.2	6.2	195	1.6	3.8
	KALENJIN	374	3.5	5.7	374	3.8	6.0	373	2.3	5.0	374	4.5	6.2	374	1.1	3.1
	KARIMOJONG	89	4.9	7.4	90	5.1	6.5	90	2.8	6.1	90	4.7	6.5	90	1.3	3.6
	LUO	107	5.4	7.4	107	5.7	7.3	107	3.2	6.4	107	4.4	6.6	107	1.3	3.6
	LUVIA	363	5.3	7.1	363	4.7	6.8	364	2.3	5.3	365	3.6	6.0	364	1.0	2.9
	CENTRAL BANTU	806	5.8	7.3	804	4.8	6.6	809	2.1	4.9	808	3.9	5.8	806	1.1	3.2
	POKOMO	89	6.1	7.7	89	4.6	6.5	90	2.6	5.8	90	3.7	6.0	90	0.9	2.7
	MJI KENDA	173	8.2	7.9	173	7.1	7.1	174	3.6	6.0	173	4.8	6.3	174	1.0	3.1
	TAITA	92	6.8	7.4	93	5.5	7.0	93	2.4	4.9	93	3.8	5.9	92	1.0	3.0
POPULATION		FINGER ONE NO MEAN SD		FINGER TWO NO MEAN SD		FINGER THREE NO MEAN SD		FINGER FOUR NO MEAN SD		FINGER FIVE NO MEAN SD						
Unilateral Right	SOMALI	148	15.0	5.5	147	11.5	4.9	145	10.7	4.6	147	13.3	5.2	146	11.6	4.1
	CUSHITIC	174	14.6	5.7	170	10.4	5.5	172	10.3	4.9	173	13.1	5.4	174	11.4	4.7
	MAASAI	192	13.6	5.7	193	10.7	5.4	191	10.1	5.0	192	13.0	5.9	192	11.2	5.0
	KALENJIN	377	13.4	5.8	376	9.6	4.9	376	9.9	4.6	372	12.1	5.1	376	10.4	4.5
	KARIMOJONG	89	14.5	5.0	87	11.2	5.2	88	11.2	4.9	89	13.1	5.4	90	11.6	4.8
	LUO	107	12.9	6.0	107	10.8	5.1	107	10.6	4.8	106	13.7	5.5	107	11.5	4.7
	LUVIA	361	13.4	6.0	359	9.8	5.0	364	10.1	4.9	361	13.4	5.4	361	11.3	4.6
	CENTRAL BANTU	798	13.9	6.2	804	9.9	5.2	807	10.2	5.0	797	12.5	5.5	798	10.6	4.8
	POKOMO	90	12.4	6.7	89	9.8	5.4	90	9.9	5.2	90	14.1	6.1	89	12.1	5.0
	MJI KENDA	173	14.1	6.6	174	10.9	5.6	173	11.3	5.0	174	14.7	5.3	172	11.6	4.5
	TAITA	91	12.9	6.1	93	9.8	5.5	93	10.2	5.0	93	12.4	5.5	92	10.4	4.2
POPULATION		FINGER ONE NO MEAN SD		FINGER TWO NO MEAN SD		FINGER THREE NO MEAN SD		FINGER FOUR NO MEAN SD		FINGER FIVE NO MEAN SD						
Unilateral Left	SOMALI	149	14.5	5.6	149	10.5	5.0	147	10.3	5.2	147	13.1	5.0	146	11.5	4.3
	CUSHITIC	175	13.4	6.1	174	9.3	5.6	177	9.5	5.9	175	12.5	5.6	175	11.1	4.6
	MAASAI	195	11.7	6.0	191	10.2	6.0	193	9.3	6.1	191	12.4	5.9	192	10.8	4.8
	KALENJIN	373	11.5	6.1	368	8.6	5.2	370	9.1	5.1	369	11.7	5.3	374	9.8	4.6
	KARIMOJONG	89	11.9	5.7	90	9.8	5.0	90	10.6	5.8	90	12.1	5.2	89	10.2	4.5
	LUO	107	11.6	6.5	107	10.1	5.6	107	10.3	5.4	107	13.0	5.8	107	11.3	4.3
	LUVIA	361	11.8	6.0	362	8.8	5.8	364	8.9	5.6	362	12.0	5.3	362	10.3	4.5
	CENTRAL BANTU	801	12.6	6.0	798	9.0	5.7	804	9.2	5.5	799	11.4	5.5	793	9.9	4.6
	POKOMO	89	11.1	6.7	87	8.4	5.9	90	9.5	5.7	90	12.5	6.4	89	11.0	5.1
	MJI KENDA	173	12.7	6.8	170	10.4	5.3	173	10.6	5.4	172	13.5	5.2	174	10.6	4.3
	TAITA	92	12.1	5.7	93	9.2	5.5	93	9.3	5.2	93	11.2	5.3	91	9.6	4.6
POPULATION		FINGER ONE NO MEAN SD		FINGER TWO NO MEAN SD		FINGER THREE NO MEAN SD		FINGER FOUR NO MEAN SD		FINGER FIVE NO MEAN SD						
Absolute Right	SOMALI	148	21.1	10.8	147	14.5	8.7	145	12.2	7.4	147	17.6	9.7	146	12.7	5.3
	CUSHITIC	174	19.1	10.2	170	13.5	9.2	172	11.9	7.7	173	17.1	9.9	174	12.3	6.2
	MAASAI	192	18.2	10.6	193	14.3	9.7	191	11.5	7.5	192	16.9	10.4	192	12.2	6.3
	KALENJIN	377	16.9	9.8	376	11.9	8.1	376	10.9	6.7	372	15.4	9.1	376	11.0	5.4
	KARIMOJONG	89	19.2	10.0	87	14.6	9.2	88	13.2	8.3	89	17.0	10.1	90	12.4	6.4
	LUO	107	16.6	11.2	107	14.3	9.4	107	12.8	8.5	106	18.3	10.6	107	12.6	6.2
	LUVIA	361	17.8	11.0	359	12.4	9.6	364	11.4	7.4	361					

Table AP. 1.3.3 : Distribution of total finger ridge counts and palmar ridge counts in Kenyan ethnic group samples.
(males and females)

Males

POPULATION	TOTAL RADIAL			TOTAL ULNAR			TOTAL UNILATERAL			TOTAL ABSOLUTE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	356	63.7	19.3	363	22.9	21.7	350	66.1	20.1	356	86.9	35.7
CUSHITIC	212	63.7	21.8	213	21.9	23.3	212	65.6	22.5	212	85.7	40.9
MAASAI	180	59.6	21.3	181	18.1	20.6	179	61.2	21.9	179	77.7	37.3
DORBO	74	64.5	20.9	79	23.3	20.2	75	68.7	21.1	78	90.0	36.7
KALENJIN	360	57.7	19.1	367	16.4	19.4	361	59.5	20.1	361	73.8	34.1
KARIKUMJONG	111	55.7	23.2	115	19.1	17.6	111	58.3	23.2	111	75.3	36.7
LUO	165	59.5	19.1	164	17.5	20.0	163	61.3	19.8	163	76.8	34.7
LUVIA	412	59.4	20.5	416	18.5	18.3	411	62.0	21.2	411	77.9	34.5
CENTRAL BANTU	949	58.2	20.8	959	17.3	18.8	942	60.1	21.3	942	75.5	35.6
POKOMO	129	59.9	21.7	130	18.3	19.9	129	61.9	22.3	129	79.4	36.9
MJI KENDA	271	61.3	21.2	275	21.9	21.0	271	63.7	22.1	271	83.1	38.7
TAITA	108	53.6	22.7	111	13.8	16.9	108	55.5	23.1	108	67.7	35.3
POPULATION	NO	MEAN	SD	TOTAL ULNAR	NO	MEAN	SD	TOTAL UNILATERAL	NO	MEAN	SD	TOTAL ABSOLUTE
	356	62.0	20.5	350	21.7	21.6	345	64.3	21.2	345	86.1	37.9
SOMALI	348	62.0	20.5	350	21.7	21.6	345	64.3	21.2	345	86.1	37.9
CUSHITIC	212	59.9	22.4	215	21.3	23.4	211	62.2	23.4	211	81.2	41.9
MAASAI	181	58.0	22.3	182	18.3	20.7	180	62.0	23.0	180	73.4	36.9
DORBO	75	62.6	21.3	77	24.6	22.0	75	66.6	21.8	75	87.3	37.5
KALENJIN	365	58.4	20.3	367	16.8	19.7	363	57.3	21.0	363	71.2	35.1
KARIKUMJONG	110	51.5	23.2	115	16.9	17.6	110	54.0	23.3	110	68.4	36.6
LUO	168	55.5	20.5	169	18.6	20.6	168	58.9	20.8	168	73.9	35.8
LUVIA	415	54.5	20.5	419	16.7	19.3	411	57.4	21.3	411	71.1	34.9
CENTRAL BANTU	931	52.9	22.0	937	18.0	19.8	921	55.9	22.6	921	70.6	37.6
POKOMO	126	53.3	20.5	131	17.3	20.8	127	56.7	21.5	127	70.3	36.5
MJI KENDA	256	54.5	20.9	261	21.1	21.8	249	58.0	22.0	249	74.6	39.5
TAITA	99	49.8	22.9	108	14.0	19.4	99	53.1	23.7	99	64.7	36.9
POPULATION	NO	MEAN	SD	BC RIDGE COUNT	NO	MEAN	SD	CD RIDGE COUNT	NO	MEAN	SD	TOTAL PALMAR RC
	356	35.9	5.9	328	24.9	5.6	330	35.3	5.1	345	95.0	12.6
SOMALI	359	35.9	5.9	328	24.9	5.6	330	35.3	5.1	345	95.0	12.6
CUSHITIC	205	35.7	5.5	197	25.5	5.6	193	35.9	5.9	197	95.3	12.9
MAASAI	176	37.0	6.3	169	25.2	5.6	163	36.3	5.9	170	97.4	14.4
DORBO	73	35.9	5.1	76	25.3	5.1	75	35.7	6.3	71	96.3	9.3
KALENJIN	377	37.2	5.3	366	26.3	5.4	364	36.0	5.6	373	98.9	12.7
KARIKUMJONG	112	34.3	5.5	108	26.5	5.2	107	36.1	4.7	110	98.0	11.0
LUO	155	36.7	4.9	144	27.4	5.7	145	36.0	4.7	154	99.1	11.8
LUVIA	413	36.7	5.3	374	26.9	5.3	370	36.1	5.7	396	99.6	12.2
CENTRAL BANTU	932	36.3	6.0	953	26.4	5.4	967	35.7	5.4	991	97.4	13.1
POKOMO	150	35.6	6.1	140	25.8	4.7	139	34.9	5.1	141	95.7	12.0
MJI KENDA	259	34.3	5.1	252	26.4	4.9	254	35.0	4.9	251	95.9	10.9
TAITA	104	36.5	5.9	95	25.7	5.4	95	36.0	5.9	93	95.9	12.2
POPULATION	NO	MEAN	SD	BC RIDGE COUNT	NO	MEAN	SD	CD RIDGE COUNT	NO	MEAN	SD	TOTAL PALMAR RC
	356	36.2	6.2	336	25.4	5.7	330	35.4	6.1	352	95.7	14.1
SOMALI	360	36.2	6.2	336	25.4	5.7	330	35.4	6.1	352	95.7	14.1
CUSHITIC	214	36.5	5.1	199	25.8	5.9	198	35.8	6.4	205	97.5	13.0
MAASAI	179	37.1	5.9	163	24.9	5.6	162	35.9	6.5	174	96.7	13.6
DORBO	74	36.8	5.2	72	25.1	5.1	71	36.8	5.6	73	98.0	10.7
KALENJIN	369	37.9	5.3	367	26.4	5.6	368	35.4	6.1	384	98.9	13.4
KARIKUMJONG	116	37.4	5.2	106	26.9	4.5	107	35.8	5.0	113	98.7	11.5
LUO	156	37.9	4.4	140	26.9	5.9	139	36.1	5.6	155	99.2	13.0
LUVIA	415	37.2	4.8	369	27.0	5.3	368	35.4	6.6	407	98.1	12.5
CENTRAL BANTU	954	37.1	5.5	956	26.5	5.4	963	35.7	6.4	922	97.9	13.7
POKOMO	151	36.2	6.3	138	26.4	4.7	139	35.4	5.7	142	96.7	12.2
MJI KENDA	278	36.4	4.9	252	26.6	4.9	261	35.3	5.6	260	97.5	11.7
TAITA	107	37.1	5.2	93	26.4	5.4	97	35.1	6.1	102	97.9	11.5

Females

POPULATION	TOTAL RADIAL			TOTAL ULNAR			TOTAL UNILATERAL			TOTAL ABSOLUTE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	144	59.6	17.7	146	18.3	18.9	144	61.8	18.7	144	77.9	32.5
CUSHITIC	166	57.6	21.0	169	15.1	19.0	165	59.4	21.5	165	73.8	36.1
MAASAI	191	56.7	22.1	193	16.2	19.1	191	58.6	22.5	191	73.0	36.8
KALENJIN	372	54.0	19.4	373	11.7	16.5	371	55.1	20.0	371	65.6	31.4
KARIKUMJONG	85	59.0	20.0	85	16.3	21.5	84	61.0	20.2	84	75.2	37.1
LUO	107	57.3	19.5	106	17.4	23.7	106	59.4	21.3	106	74.7	39.4
LUVIA	354	55.7	19.6	359	14.1	18.6	354	57.9	20.5	354	69.3	33.8
CENTRAL BANTU	775	55.5	21.6	795	13.0	15.7	770	56.7	22.1	770	68.3	33.0
POKOMO	88	55.5	22.4	90	15.1	17.2	88	58.0	23.2	88	70.3	35.6
MJI KENDA	170	59.9	21.0	173	22.4	21.9	170	62.8	22.8	170	82.3	40.0
TAITA	91	54.2	21.5	91	14.5	18.5	91	55.7	21.7	91	65.7	35.7
POPULATION	TOTAL RADIAL	TOTAL ULNAR	TOTAL UNILATERAL	TOTAL RADIAL	TOTAL ULNAR	TOTAL UNILATERAL	TOTAL RADIAL	TOTAL ULNAR	TOTAL UNILATERAL	TOTAL RADIAL	TOTAL ULNAR	TOTAL ABSOLUTE
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	143	58.1	19.3	147	19.9	19.7	143	60.3	19.6	143	78.3	34.3
CUSHITIC	169	51.8	21.7	174	19.4	20.9	169	55.3	22.6	169	71.2	37.9
MAASAI	187	50.6	23.5	191	19.3	21.5	187	54.4	24.0	187	70.0	40.1
KALENJIN	381	49.2	21.1	370	15.1	18.5	360	50.8	21.6	360	63.4	35.1
KARIKUMJONG	86	50.4	20.6	89	18.9	23.5	86	54.4	21.9	86	69.5	39.6
LUO	107	52.6	20.9	107	20.1	24.0	107	54.1	22.7	107	72.7	40.7
LUVIA	353	48.2	21.2	359	17.0	20.3	353	51.7	22.1	353	65.0	36.9
CENTRAL BANTU	782	48.3	21.6	794	17.5	19.8	770	51.9	22.7	770	65.8	36.0
POKOMO	87	48.7	24.1	90	17.2	19.7	86	51.9	24.6	86	65.3	39.4
MJI KENDA	169	53.5	21.6	171	24.5	22.5	166	57.0	23.0	166	73.2	40.4
TAITA	91	46.6	21.6	92	19.6	20.5	91	51.4	22.2	91	66.3	37.8
POPULATION	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	143	36.2	4.5	135	24.9	5.2	136	35.5	5.6	141	95.8	11.1
CUSHITIC	173	36.3	5.0	168	25.6	5.0	167	35.8	5.5	172	97.2	10.9
MAASAI	193	37.4	5.6	174	26.8	5.8	175	37.5	5.8	189	100.3	12.8
KALENJIN	365	37.7	5.2	353	26.0	5.3	351	36.2	5.4	359	99.2	11.6
KARIKUMJONG	87	35.9	5.6	78	26.1	5.9	76	36.6	5.3	84	97.5	12.1
LUO	107	36.4	5.1	99	26.6	5.3	98	36.6	6.0	106	90.1	11.7
LUVIA	360	37.0	5.2	322	27.0	5.1	319	36.4	5.6	351	90.5	11.7
CENTRAL BANTU	772	36.7	5.7	721	26.3	4.9	718	35.7	5.3	743	94.0	12.1
POKOMO	87	35.7	5.1	86	25.9	4.3	85	36.6	5.6	84	97.5	11.5
MJI KENDA	168	37.0	4.8	153	26.8	4.9	154	35.1	5.3	162	98.2	11.0
TAITA	90	37.1	4.7	86	26.1	4.9	85	35.2	4.9	98	97.7	9.3
POPULATION	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT	AB RIDGE COUNT	BC RIDGE COUNT	CD RIDGE COUNT
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	145	36.3	5.4	136	25.4	5.4	132	35.1	5.9	139	95.6	11.9
CUSHITIC	176	36.8	4.9	166	26.0	5.0	166	35.6	6.3	167	97.4	12.2
MAASAI	189	37.2	5.2	166	26.7	5.9	163	37.2	6.1	180	100.5	12.9
KALENJIN	368	37.9	4.2	336	26.4	5.1	334	36.6	5.9	363	99.6	12.3
KARIKUMJONG	84	37.3	5.4	80	26.3	5.0	79	36.0	6.0	82	100.1	11.9
LUO	106	36.4	4.4	90	27.3	5.3	96	36.4	6.0	104	98.4	11.8
LUVIA	362	37.8	4.9	312	27.7	5.0	310	36.6	6.0	357	100.3	12.3
CENTRAL BANTU	775	37.3	5.7	712	26.8	4.9	706	36.2	5.7	761	99.0	12.9
POKOMO	89	36.8	5.4	82	26.1	5.0	81	37.0	5.6	87	98.4	12.7
MJI KENDA	173	37.1	5.0	160	26.7	4.9	156	35.8	6.0	168	98.3	11.4
TAITA	90	37.6	4.9	85	27.1	4.6	84	36.8	6.2	89	99.5	10.9

Table AP. 1.3.4 : Distribution of digital patterns in
Kenyan ethnic group samples (males).

	POPULATION	NO	RIGHT HAND					FINGER					LEFT HAND				
			ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE
			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Ulnar Loops	SOMALI	377	45.2	30.5	73.6	47.1	80.4	52.4	49.1	68.5	53.2	91.3					
	CUSHITIC	219	45.9	52.5	75.1	48.8	79.3	53.2	46.8	66.1	55.5	78.4					
	MAASAI	187	51.9	59.1	76.9	54.1	81.1	57.1	51.1	74.7	53.8	79.6					
	DOROBO	79	51.9	60.5	73.4	48.1	83.5	48.7	47.4	67.9	47.4	78.2					
	KALENJIIN	399	63.0	55.2	79.3	54.2	80.6	66.1	53.4	70.4	54.3	93.1					
	KARIMOJONG	118	44.9	30.4	74.6	45.8	81.0	52.5	54.7	70.3	51.7	79.7					
	LUO	170	52.1	61.8	77.1	54.1	85.6	55.3	50.6	69.4	56.5	84.7					
	LUYIA	425	51.3	51.1	77.0	54.7	83.2	57.2	52.0	74.8	61.2	87.0					
	CENTRAL BANTU	991	47.8	54.6	79.4	59.4	84.9	50.2	49.7	71.2	58.2	95.1					
	POKOMO	155	52.6	53.0	78.0	59.1	79.7	56.0	48.1	70.9	67.9	82.8					
	MJI KENDA	291	39.1	48.2	74.6	52.9	85.9	40.0	47.6	74.3	54.5	87.0					
	TAITA	114	50.9	52.6	80.7	53.2	92.1	52.7	58.9	74.1	70.2	96.8					
Radial Loops	SOMALI	377	0.5	4.8	1.1	0.3	0.5	0.5	6.4	0.8	1.1	0.3					
	CUSHITIC	219	0.5	3.2	1.4	0.5	0.5	0.5	7.8	1.8	0.5	0.0					
	MAASAI	187	0.5	4.8	0.0	0.5	0.0	1.1	6.0	0.0	1.1	0.0					
	DOROBO	79	0.0	6.3	1.3	0.0	0.0	1.3	7.7	0.0	0.0	1.3					
	KALENJIIN	399	0.5	4.5	0.5	1.0	0.3	0.5	10.1	1.8	1.5	0.8					
	KARIMOJONG	118	0.8	6.0	3.4	1.7	0.0	0.0	9.4	5.1	1.7	0.8					
	LUO	170	1.2	5.9	0.6	0.0	0.0	1.2	11.8	2.9	0.6	0.0					
	LUYIA	425	0.2	5.6	0.2	0.0	0.2	0.5	12.5	1.6	0.9	0.2					
	CENTRAL BANTU	991	0.4	7.3	0.5	0.5	0.1	0.5	11.9	2.5	1.5	0.1					
	POKOMO	155	0.8	6.1	0.8	0.0	0.0	0.7	11.3	3.7	2.2	0.0					
	MJI KENDA	291	1.1	6.5	0.4	0.7	0.0	1.8	10.6	0.4	0.4	0.4					
	TAITA	114	0.0	4.4	1.8	0.0	0.0	1.8	9.8	0.0	0.9	0.0					
Concentric Whorls	SOMALI	377	32.2	28.2	14.9	38.8	10.5	25.8	25.1	16.0	32.7	9.3					
	CUSHITIC	219	19.7	23.0	16.1	34.1	11.1	16.5	22.0	18.8	29.4	11.5					
	MAASAI	187	19.5	19.9	13.4	33.0	10.3	16.3	24.5	12.4	33.3	10.8					
	DOROBO	79	29.1	30.4	13.9	40.5	5.9	21.8	35.6	17.9	34.6	11.5					
	KALENJIIN	399	11.4	20.7	10.1	31.7	7.6	10.8	19.2	14.9	30.3	7.1					
	KARIMOJONG	118	20.3	23.9	12.7	33.9	8.6	13.6	17.9	12.7	28.8	9.3					
	LUO	170	14.2	15.9	12.4	31.2	9.6	13.5	18.2	13.5	25.9	8.2					
	LUYIA	425	18.8	20.4	11.9	29.3	4.5	11.6	16.5	11.3	24.0	4.7					
	CENTRAL BANTU	991	19.3	18.6	9.9	26.8	5.7	12.1	16.1	11.7	25.1	6.5					
	POKOMO	155	12.0	19.7	11.4	29.5	9.8	6.7	15.8	11.9	20.9	6.0					
	MJI KENDA	291	24.3	20.7	14.1	29.7	5.4	12.7	17.2	14.9	24.0	4.3					
	TAITA	114	13.4	23.7	4.4	21.9	2.6	12.5	10.7	5.9	16.7	0.9					
Double Loops	SOMALI	377	17.3	9.3	3.7	4.0	2.2	17.3	9.6	4.5	5.9	4.3					
	CUSHITIC	219	27.1	8.3	1.8	7.4	4.6	23.4	11.9	6.0	6.0	5.0					
	MAASAI	187	22.7	7.0	2.2	2.7	4.3	18.5	6.0	2.7	3.8	3.2					
	DOROBO	79	16.5	17.7	8.3	5.1	5.1	23.1	11.5	6.4	7.7	5.4					
	KALENJIIN	399	20.0	11.6	3.5	3.3	3.5	15.3	9.9	3.5	4.0	2.8					
	KARIMOJONG	118	25.4	6.0	2.5	4.2	5.2	24.6	7.7	0.8	4.2	4.2					
	LUO	170	29.0	10.0	2.9	3.5	0.6	22.4	10.0	6.5	5.3	2.4					
	LUYIA	425	21.4	10.7	4.3	7.3	5.0	21.7	10.4	3.8	7.3	4.7					
	CENTRAL BANTU	991	27.1	10.6	4.6	5.1	4.0	30.0	11.1	6.0	7.8	4.9					
	POKOMO	155	27.1	10.6	3.8	6.1	5.3	28.4	14.3	3.7	5.2	5.2					
	MJI KENDA	291	28.6	14.1	4.3	7.6	3.3	35.3	12.8	5.1	11.3	4.7					
	TAITA	114	22.3	8.8	1.8	5.3	0.9	22.3	6.3	5.4	3.5	1.8					
Arches	SOMALI	377	2.9	2.7	2.4	1.6	1.3	2.7	5.3	5.9	1.6	1.6					
	CUSHITIC	219	4.1	8.3	2.8	1.4	1.4	5.5	7.3	5.5	1.8	1.4					
	MAASAI	187	4.9	5.4	4.3	2.2	0.0	6.5	7.6	6.5	3.2	0.5					
	DOROBO	79	2.5	3.8	2.5	1.3	0.0	3.8	5.1	5.1	0.0	2.6					
	KALENJIIN	399	3.5	5.3	4.0	2.3	1.5	7.0	5.4	6.6	2.5	1.5					
	KARIMOJONG	118	6.8	9.4	5.1	5.1	0.9	7.6	9.4	10.2	4.2	0.8					
	LUO	170	3.0	2.4	3.5	2.9	0.6	7.6	4.7	4.7	2.4	1.2					
	LUYIA	425	6.2	5.2	4.0	1.4	1.4	8.5	5.7	6.6	1.2	1.4					
	CENTRAL BANTU	991	5.2	5.9	4.1	1.5	1.1	6.9	7.8	6.6	2.5	1.5					
	POKOMO	155	5.3	7.6	3.8	0.8	0.8	6.0	9.0	8.2	2.2	2.2					
	MJI KENDA	291	6.2	5.8	4.0	1.1	0.4	8.0	8.8	4.3	2.2	1.1					
	TAITA	114	9.8	10.5	8.8	3.5	2.6	8.9	11.6	10.7	3.5	7.0					
Total Loops	SOMALI	377	45.7	55.3	74.7	47.3	80.9	52.9	55.5	69.3	54.3	91.6					
	CUSHITIC	219	46.3	55.8	77.5	49.3	79.7	53.7	54.6	67.9	56.0	78.4					
	MAASAI	187	52.4	64.0	76.9	54.6	81.1	58.2	57.1	74.7	54.8	79.6					
	DOROBO	79	51.9	64.8	74.7	48.1	83.5	50.0	55.1	67.9	47.4	79.5					
	KALENJIIN	399	63.5	59.7	79.8	55.2	80.8	66.6	63.5	72.2	55.8	93.9					
	KARIMOJONG	118	45.8	56.4	78.0	47.5	81.0	52.5	64.1	75.4	53.4	80.6					
	LUO	170	53.3	67.6	77.6	54.1	85.4	56.5	62.4	72.4	57.1	94.7					
	LUYIA	425	51.5	59.6	77.3	54.7	83.5	57.7	64.5	76.5	62.1	97.3					
	CENTRAL BANTU	991	48.2	61.9	79.9	59.9	85.0	50.7	61.6	73.7	59.8	89.2					
	POKOMO	155	53.4	59.1	78.8	59.1	79.7	56.7	59.4	74.6	70.1	92.8					
	MJI KENDA	291	40.2	54.7	75.0	53.6	85.9	41.8	58.2	74.6	54.9	97.3					
	TAITA	114	50.9	57.0	82.5	63.2	92.1	54.5	68.8	74.1	71.1	96.8					
Total Whorls	SOMALI	377	51.3	42.0	22.9	51.1	17.7	44.4	39.2	24.8	44.1	16.9					
	CUSHITIC	219	49.5	35.9	19.7	49.3	18.9	40.8	38.1	26.6	42.2	20.2					
	MAASAI	187	42.7	30.6	18.9	43.2	18.9	35.3	35.3	18.8	41.9	19.9					
	DOROBO	79	45.6	49.4	22.8	50.6	16.5	46.2	39.7	26.9	52.6	17.9					
	KALENJIIN	399	32.9	35.0	16.1	42.6	17.7	26.4	30.9	21.3	41.7	14.6					
	KARIMOJONG	118	47.5	34.2	16.9	47.5	18.1	39.8	26.5	14.4	42.4	18.6					
	LUO	170	43.8	30.0	13.8	42.9	13.8	35.9	32.9	22.9	40.6	14.1					
	LUYIA	425	42.3	35.2	18.7	43.8	15.1	33.8	29.8	16.9	36.7	11.3					
	CENTRAL BANTU	991	46.6	32.2	16.1	38.5	13.9	42.4	30.6	19.7	37.7	13.3					
	POKOMO	155	41.4	33.3	17.4	40.2	19.3	37.3	31.6	17.2	27.6	14.9					
	MJI KENDA	291	53.6	39.5	21.0	45.3	13.8	50.2	33.0	21.0	42.9	11.6					
	TAITA	114	39.3	32.5	8.9	33.3	5.3	36.6	19.6	15.2	25.4	6.1					

Table AP. 1.3.5 : Distribution of digital patterns in Kenyan ethnic group samples (females).

	POPULATION	NO	RIGHT HAND					FINGER					LEFT HAND				
			ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE
			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Ulnar Loops	SOMALI	149	49.3	60.5	82.2	55.8	79.7	41.9	55.7	57.8	55.7	83.9	57.8	55.7	57.8	55.7	83.9
	CUSHITIC	180	54.0	56.3	79.4	50.8	84.2	51.7	44.6	70.2	55.7	81.4	51.7	44.6	70.2	55.7	81.4
	MAASAI	196	54.1	56.2	79.9	60.8	81.4	51.5	46.1	52.1	55.7	76.9	51.5	46.1	52.1	55.7	76.9
	KALENJIN	378	63.1	68.2	84.4	61.2	89.1	58.2	54.9	72.1	54.5	91.9	58.2	54.9	72.1	54.5	91.9
	KARIMOJONG	90	56.7	58.4	74.2	60.7	90.0	57.3	51.1	73.3	55.6	95.6	57.3	51.1	73.3	55.6	95.6
	LUO	107	64.5	58.9	75.7	54.2	80.4	50.5	49.5	71.0	55.1	93.2	50.5	49.5	71.0	55.1	93.2
	LUVIA	367	58.1	60.4	81.7	58.6	89.6	50.5	49.0	70.8	64.6	93.2	58.6	60.4	81.7	58.1	89.6
	CENTRAL BANTU	818	52.3	58.2	83.6	57.3	88.8	48.8	46.2	71.7	57.3	83.0	48.8	46.2	71.7	57.3	83.0
	POKOMO	90	44.4	55.6	80.0	50.0	90.0	38.9	44.4	58.9	62.2	93.3	38.9	44.4	58.9	62.2	93.3
	MJI KENDA	179	36.2	42.0	69.0	53.4	85.9	31.0	37.0	62.3	54.3	97.1	31.0	37.0	62.3	54.3	97.1
TAITA	93	50.0	61.3	79.6	53.2	87.1	42.4	46.2	59.9	57.0	83.9	42.4	46.2	59.9	57.0	83.9	
Radial Loops	POPULATION	NO	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE
	SOMALI	149	0.0	4.1	0.0	1.4	0.7	0.0	2.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.0
	CUSHITIC	180	0.0	4.0	0.6	0.6	0.0	0.6	10.7	1.1	0.6	3.0	0.6	0.0	1.1	0.6	3.0
	MAASAI	196	0.5	4.1	0.0	1.0	0.0	1.0	10.4	2.6	2.1	1.0	1.0	0.0	2.6	2.1	1.0
	KALENJIN	378	0.5	2.7	0.3	1.3	0.0	0.0	8.5	2.1	2.1	1.3	0.0	0.0	2.1	2.1	1.3
	KARIMOJONG	90	2.2	7.9	0.0	1.1	0.0	4.5	11.1	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1
	LUO	107	0.0	4.7	0.0	0.9	0.9	0.9	8.4	0.0	0.9	3.0	0.0	0.0	0.9	3.0	3.0
	LUVIA	367	0.5	6.0	0.5	0.0	0.0	2.5	12.8	2.5	1.6	0.5	0.5	0.0	2.5	1.6	0.5
	CENTRAL BANTU	818	0.6	3.6	0.1	0.7	0.1	1.5	11.1	1.7	1.5	0.5	0.5	0.0	1.7	1.5	0.5
	POKOMO	90	1.1	5.6	0.0	1.1	0.0	2.2	12.2	1.1	1.1	0.0	0.0	0.0	1.1	1.1	0.0
Concentric Whorls	MJI KENDA	179	2.3	4.6	0.0	0.6	0.0	5.2	8.1	2.3	0.0	0.6	0.0	0.0	2.3	0.0	0.6
	TAITA	93	1.1	2.2	2.2	0.0	0.0	4.3	8.6	3.2	1.1	1.1	0.0	0.0	3.2	1.1	1.1
	POPULATION	NO	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE
	SOMALI	149	29.1	19.0	8.2	29.9	8.8	25.7	19.5	18.8	28.9	8.1	29.1	19.0	8.2	29.9	8.8
	CUSHITIC	180	17.6	21.0	10.3	30.1	5.2	17.4	23.2	15.7	26.7	10.2	17.6	21.0	10.3	30.1	5.2
	MAASAI	196	20.6	22.2	8.2	26.3	4.6	15.3	18.1	14.4	24.7	6.2	20.6	22.2	8.2	26.3	4.6
	KALENJIN	378	10.9	14.3	6.4	21.3	4.0	9.3	16.3	12.8	28.5	7.7	10.9	14.3	6.4	21.3	4.0
	KARIMOJONG	90	17.8	21.3	15.7	25.8	4.4	9.0	22.2	15.6	28.9	4.4	17.8	21.3	15.7	25.8	4.4
	LUO	107	10.3	26.2	13.1	29.0	8.4	11.2	23.4	17.8	26.2	9.3	10.3	26.2	13.1	29.0	8.4
	LUVIA	367	11.6	16.9	6.2	18.9	4.4	10.2	16.7	11.2	21.5	5.7	11.6	16.9	6.2	18.9	4.4
Double Loops	CENTRAL BANTU	818	14.4	19.1	5.5	17.5	3.4	13.1	17.6	11.6	23.8	7.0	14.4	19.1	5.5	17.5	3.4
	POKOMO	90	16.7	13.3	7.8	25.6	3.3	16.7	21.1	16.7	21.1	4.4	16.7	13.3	7.8	25.6	3.3
	MJI KENDA	179	20.7	28.2	15.5	26.4	2.3	16.1	31.8	18.3	31.4	6.7	20.7	28.2	15.5	26.4	2.3
	TAITA	93	15.2	19.4	8.6	21.5	3.2	13.0	20.4	12.9	26.9	8.6	15.2	19.4	8.6	21.5	3.2
	POPULATION	NO	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE
	SOMALI	149	16.2	8.8	2.7	4.8	2.0	25.0	12.1	2.7	6.3	1.3	16.2	8.8	2.7	4.8	2.0
	CUSHITIC	180	22.2	8.5	3.4	4.0	2.3	21.9	10.7	4.5	5.7	4.0	22.2	8.5	3.4	4.0	2.3
	MAASAI	196	18.6	6.2	2.6	3.1	3.1	18.4	9.8	8.2	3.1	3.6	18.6	6.2	2.6	3.1	3.1
	KALENJIN	378	15.0	8.0	1.9	4.3	1.1	21.3	6.7	3.2	3.2	2.4	15.0	8.0	1.9	4.3	1.1
	KARIMOJONG	90	17.8	2.2	1.1	2.2	2.2	15.7	3.3	1.1	2.2	3.3	17.8	2.2	1.1	2.2	2.2
Archs	LUO	107	17.8	7.5	4.7	3.7	1.9	26.2	6.5	3.7	2.8	0.9	17.8	7.5	4.7	3.7	1.9
	LUVIA	367	22.7	5.7	2.7	2.7	2.5	25.8	7.1	3.0	3.8	3.0	22.7	5.7	2.7	2.7	2.5
	CENTRAL BANTU	818	25.7	10.3	3.9	4.9	1.4	28.4	9.7	3.8	5.5	3.7	25.7	10.3	3.9	4.9	1.4
	POKOMO	90	20.0	7.8	3.3	4.4	1.1	22.2	6.7	1.1	7.8	3.3	20.0	7.8	3.3	4.4	1.1
	MJI KENDA	179	32.8	14.4	6.3	8.6	3.4	36.8	11.0	7.4	9.0	2.8	32.8	14.4	6.3	8.6	3.4
	TAITA	93	25.3	3.2	1.1	7.5	4.3	29.3	8.6	2.2	4.3	1.1	25.3	3.2	1.1	7.5	4.3
	POPULATION	NO	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE
	SOMALI	149	2.7	4.8	2.1	0.0	2.0	4.7	4.7	7.4	1.3	0.7	2.7	4.8	2.1	0.0	2.0
	CUSHITIC	180	4.5	6.8	4.6	1.7	1.7	6.7	8.5	8.4	3.4	2.8	4.5	6.8	4.6	1.7	1.7
	Total Loops	MAASAI	196	4.1	5.2	6.7	3.6	4.1	11.2	9.3	11.8	5.7	4.6	4.1	5.2	6.7	3.6
KALENJIN		378	6.9	5.0	5.0	2.4	2.1	10.4	8.8	7.4	2.7	2.7	6.9	5.0	5.0	2.4	2.1
KARIMOJONG		90	3.3	5.6	5.6	2.2	2.2	9.0	7.8	5.6	5.6	3.3	3.3	5.6	5.6	2.2	2.2
LUO		107	6.5	1.9	3.7	4.7	1.9	11.2	4.7	5.6	4.7	1.9	6.5	1.9	3.7	4.7	1.9
LUVIA		367	6.0	6.3	6.0	2.5	1.6	9.3	9.6	10.4	4.1	1.6	6.0	6.3	6.0	2.5	1.6
CENTRAL BANTU		818	6.3	7.3	5.5	2.8	2.2	7.5	10.6	9.7	4.6	2.5	6.3	7.3	5.5	2.8	2.2
POKOMO		90	13.3	12.2	8.9	4.4	2.2	16.7	14.4	10.0	4.4	4.4	13.3	12.2	8.9	4.4	2.2
MJI KENDA		179	7.5	8.0	7.5	1.1	2.3	10.3	7.5	8.0	2.3	1.1	7.5	8.0	7.5	1.1	2.3
TAITA		93	4.3	9.7	6.5	3.2	2.2	6.5	10.8	7.5	5.4	3.2	4.3	9.7	6.5	3.2	2.2
Total Whorls		POPULATION	NO	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR
	SOMALI	149	49.3	64.6	82.2	57.1	80.4	41.9	58.4	68.5	56.4	83.9	49.3	64.6	82.2	57.1	80.4
	CUSHITIC	180	54.0	60.2	80.0	61.4	84.2	52.2	55.4	71.3	56.3	81.4	54.0	60.2	80.0	61.4	84.2
	MAASAI	196	54.6	60.3	79.9	61.9	81.4	52.6	56.5	64.6	57.7	77.9	54.6	60.3	79.9	61.9	81.4
	KALENJIN	378	63.7	70.8	84.6	62.5	89.1	58.2	63.7	74.2	54.6	83.2	63.7	70.8	84.6	62.5	89.1
	KARIMOJONG	90	58.9	66.3	74.2	61.8	90.0	61.8	62.2	74.4	56.7	86.7	58.9	66.3	74.2	61.8	90.0
	LUO	107	64.5	63.6	75.7	55.1	81.3	51.4	57.9	71.0	56.1	93.2	64.5	63.6	75.7	55.1	81.3
	LUVIA	367	58.6	66.4	82.3	68.6	89.6	53.0	61.6	73.3	66.2	95.6	58.6	66.4	82.3	68.6	89.6
	CENTRAL BANTU	818	53.0	61.7	83.8	68.0	88.9	50.2	57.3	73.4	59.8	83.5	53.0	61.7	83.8	68.0	88.9
	POKOMO	90	45.6	61.1	80.0	61.1	90.0	41.1	56.7	70.0	63.3	83.3	45.6	61.1	80.0	61.1	90.0

TABLE AP1.3.6: DISTRIBUTION OF BASIC TOTAL DIGITAL PATTERNS IN KENYAN ETHNIC GROUP SAMPLES (MALES AND FEMALES).

POPULATION	RIGHT HAND										LEFT HAND									
	NOF	A	AT	UL	RL	CW	DL	UCP	RCP	ACC	NOF	A	AT	UL	RL	CW	DL	UCP	RCP	ACC
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MALES:																				
SOMALI	1868	2.2	.0	39.3	1.4	24.9	7.3	4.1	0.6	.1	1872	2.9	.5	60.9	1.8	21.8	8.3	2.9	0.8	.1
CUSHITIC	1142	3.2	.2	61.5	1.2	20.2	9.7	3.2	0.6	.1	1145	4.2	.2	60.7	2.0	19.2	10.1	2.3	1.0	.3
DOROBO	395	1.8	.3	59.5	1.5	24.6	10.1	2.0	0.3	.0	390	3.3	.0	57.9	2.1	22.3	11.0	2.6	0.8	.0
HAABAI	927	3.3	.0	64.6	1.2	19.2	7.8	3.8	0.1	.0	926	4.6	.2	63.3	1.6	19.4	6.8	3.2	0.8	.0
KALENJIN	1987	3.2	.1	66.4	1.4	16.4	8.4	3.7	0.5	.1	1986	4.4	.2	65.5	3.0	16.5	7.1	2.0	0.6	.0
KARIMOJONG	587	5.1	.3	59.3	2.4	19.9	8.7	3.7	0.5	.0	589	6.5	.0	61.8	3.4	16.5	8.3	3.2	0.3	.0
LUO	846	2.2	.2	66.1	1.5	16.7	9.2	3.0	1.1	.0	850	3.9	.2	63.3	3.3	15.9	9.3	3.2	0.9	.0
LUYIA	2109	3.7	.0	63.5	1.8	16.4	9.7	4.1	0.8	.0	2120	4.4	.3	66.5	3.2	13.6	9.6	1.7	0.7	.1
CENTRAL BANTU	4987	3.6	.1	65.3	1.0	15.8	10.4	2.7	0.3	.0	4994	4.8	.4	62.9	3.3	14.3	11.9	1.7	0.7	.1
POKOMO	662	3.5	.2	64.5	1.5	16.5	10.6	2.7	0.6	.0	669	5.4	.1	65.2	3.6	12.3	11.4	1.2	0.6	.3
MJI KENBA	1380	3.4	.1	60.1	1.7	10.8	11.6	3.6	0.6	.0	1375	4.7	.1	60.7	2.7	14.6	13.8	2.5	0.7	.1
TAITA	568	7.0	.0	68.0	1.2	13.2	7.7	2.3	0.5	.0	564	8.2	.2	68.6	2.5	9.9	7.8	2.0	2.0	.1

FEMALES:

SOMALI	736	2.2	.1	65.5	1.2	19.0	6.9	4.6	0.4	.0	744	3.5	.3	61.0	0.8	20.2	9.4	3.9	0.9	.0
CUSHITES	890	4.0	.0	67.1	1.0	16.9	8.0	2.6	0.4	.0	896	5.8	.4	60.6	2.6	10.5	9.4	2.0	0.7	.0
HAABAI	1015	4.7	.0	66.1	1.1	16.8	6.6	3.0	0.8	.0	1018	8.4	.0	58.5	3.2	16.1	8.7	3.1	1.8	.0
KALENJIN	1884	4.2	.1	73.2	1.0	11.4	6.6	3.1	0.4	.1	1879	5.7	.6	64.3	2.9	14.9	7.3	2.9	1.3	.0
KARIMOJONG	447	3.8	.0	68.0	2.2	17.0	5.1	3.1	0.7	.0	449	5.8	.4	64.6	3.8	16.0	5.1	2.9	1.3	.0
LUO	535	3.7	.0	66.7	1.3	17.4	7.1	3.6	0.0	.2	535	5.6	.0	61.9	2.1	17.6	8.0	3.4	1.5	.0
LUYIA	1831	4.5	.0	71.7	1.4	12.0	7.9	2.0	0.5	.0	1829	6.5	.5	64.1	3.9	13.1	8.5	2.2	1.2	.0
CENTRAL BANTU	4113	4.9	.1	69.8	1.0	11.9	9.1	2.8	0.3	.1	4106	6.8	.4	61.4	3.2	14.6	10.3	2.0	1.2	.1
POKOMO	450	8.2	.0	66.0	1.6	13.3	7.3	2.4	1.1	.0	450	9.8	.2	59.6	3.3	16.0	8.2	1.0	1.1	.0
MJI KENBA	873	4.8	.5	57.4	1.5	10.6	13.1	4.0	0.2	.0	875	5.7	.1	54.5	3.2	20.8	13.1	1.6	0.9	.0
TAITA	464	4.7	.4	67.7	1.1	13.6	8.8	3.4	2.4	.0	464	6.5	.2	59.9	3.7	16.4	9.1	1.9	2.4	.0

NOF=NUMBER OF FINGERS.

LATERAL POCKET LOOPS ARE RARE, AND AMALGAMATED WITH CUNORLS.

TABLE AP1.3.7: DISTRIBUTION OF TOTAL SUMMARY FINGER PATTERNS IN KENYAN ETHNIC GROUP SAMPLES (MALES AND FEMALES)

POPULATION	RIGHT HAND			LEFT HAND				
	NOF	ARCHES	LOOPS UNORLS	NOF	ARCHES	LOOPS UNORLS		
	%	%	%	%	%	%		

MALES:								
SOMALI	1868	2.2	60.8	37.0	1872	3.4	62.7	33.9
CUSHITES	1142	3.4	62.7	33.9	1145	4.4	62.7	32.9
DOROBO	395	2.0	61.0	37.0	390	3.3	60.0	36.7
HAABAI	927	3.3	65.8	30.9	926	4.9	64.9	30.2
KALENJIN	1987	3.3	67.0	28.9	1986	4.6	68.4	26.9
KARIMOJONG	587	5.5	61.7	32.9	589	6.5	65.2	28.4
LUO	846	2.5	67.6	29.9	850	4.1	66.6	29.3
LUYIA	2109	3.7	65.3	31.0	2120	4.7	69.6	25.7
CENTRAL BANTU	4987	3.7	67.0	29.3	4994	5.2	66.2	28.6
POKOMO	662	3.6	66.0	30.4	669	5.5	68.8	25.7
MJI KENBA	1380	3.5	61.9	34.6	1375	4.9	63.4	31.7
TAITA	568	7.0	69.2	23.8	564	8.3	71.1	20.6

NOF=NUMBER OF FINGERS.

Table AP. 1.3.8 : Distribution of finger and palmar indices of triradial intensity and the atd angle in Kenyan ethnic group samples (males)

POPULATION	FINGER ONE		FINGER TWO		FINGER THREE		FINGER FOUR		FINGER FIVE							
	NO	SD	NO	SD	NO	SD	NO	SD	NO	SD						
Right Hand	SOMALI	376	1.484	0.556	376	1.396	0.546	375	1.205	0.460	374	1.495	0.532	372	1.164	0.405
	CUSHITIC	218	1.974	0.576	217	1.290	0.604	218	1.170	0.444	217	1.479	0.526	217	1.175	0.416
	MAASAI	185	1.378	0.578	186	1.253	0.586	186	1.145	0.460	185	1.411	0.536	185	1.169	0.393
	DORZHU	79	1.430	0.547	79	1.468	0.551	79	1.203	0.464	79	1.494	0.528	79	1.165	0.373
	KALENJIIN	395	1.294	0.528	397	1.300	0.550	397	1.123	0.429	397	1.403	0.535	396	1.162	0.408
	KARI MOJONG	119	1.407	0.617	117	1.265	0.593	119	1.119	0.456	118	1.424	0.501	116	1.172	0.402
	LUI	169	1.408	0.550	170	1.276	0.499	170	1.159	0.406	170	1.406	0.538	167	1.132	0.357
	LUYIA	421	1.361	0.596	421	1.299	0.561	422	1.147	0.454	422	1.424	0.523	423	1.137	0.383
	CENTRAL BANTU	981	1.414	0.589	982	1.270	0.553	984	1.121	0.431	981	1.370	0.514	984	1.128	0.166
	POKOMO	133	1.361	0.502	132	1.265	0.578	132	1.136	0.442	132	1.394	0.506	133	1.188	0.411
Left Hand	MJI KENIA	276	1.875	0.611	276	1.341	0.578	276	1.170	0.471	276	1.442	0.519	276	1.134	0.152
	TAITA	112	1.295	0.639	114	1.219	0.621	114	1.000	0.421	114	1.298	0.531	114	1.026	0.281
	POPULATION	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
	SOMALI	376	1.416	0.545	375	1.349	0.560	375	1.197	0.510	376	1.426	0.526	375	1.157	0.393
Right Hand	CUSHITIC	218	1.353	0.583	218	1.326	0.607	218	1.211	0.527	218	1.404	0.524	218	1.188	0.426
	MAASAI	194	1.288	0.581	194	1.280	0.581	186	1.124	0.489	186	1.387	0.531	196	1.194	0.410
	DORZHU	78	1.423	0.570	78	1.346	0.577	78	1.218	0.526	78	1.526	0.503	78	1.194	0.429
	KALENJIIN	398	1.193	0.545	395	1.261	0.538	395	1.147	0.508	396	1.394	0.534	397	1.131	0.380
	KARI MOJONG	118	1.322	0.612	117	1.171	0.577	118	1.062	0.496	118	1.381	0.569	118	1.178	0.406
	LUI	170	1.282	0.598	170	1.294	0.529	170	1.182	0.495	170	1.302	0.534	170	1.129	0.370
	LUYIA	423	1.253	0.600	423	1.244	0.535	425	1.111	0.465	425	1.355	0.503	424	1.090	0.343
	CENTRAL BANTU	984	1.355	0.606	980	1.244	0.563	985	1.137	0.492	984	1.354	0.525	986	1.119	0.365
	POKOMO	134	1.313	0.581	133	1.241	0.605	134	1.097	0.518	134	1.254	0.496	134	1.127	0.396
	MJI KENIA	275	1.822	0.637	273	1.253	0.499	276	1.167	0.476	275	1.407	0.535	276	1.105	0.361
Left Hand	TAITA	112	1.277	0.616	112	1.089	0.546	112	1.045	0.509	114	1.219	0.493	114	0.991	0.364
	POPULATION	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
	SOMALI	374	4.257	0.654	375	1.309	0.520	374	5.626	0.890	370	6.765	1.746	366	36.6	4.7
	CUSHITIC	218	4.229	0.570	216	1.306	0.508	216	5.644	0.698	215	6.558	1.066	213	4.6	4.6
Right Hand	MAASAI	186	4.237	0.577	186	1.312	0.519	186	5.608	0.620	184	6.359	1.829	179	37.7	4.8
	DORZHU	79	4.203	0.490	79	1.253	0.466	79	5.747	1.056	79	6.759	1.587	78	38.6	4.4
	KALENJIIN	399	4.208	0.530	390	1.262	0.463	387	5.636	0.896	394	6.282	1.781	388	37.9	4.1
	KARI MOJONG	117	4.768	0.638	113	1.354	0.566	112	5.857	0.967	115	6.357	1.846	116	38.8	5.1
	LUI	170	4.453	0.600	170	1.359	0.528	170	5.929	0.970	166	6.355	1.662	168	39.9	5.5
	LUYIA	425	4.360	0.662	423	1.286	0.498	423	5.776	0.908	417	6.160	1.732	418	37.9	4.9
	CENTRAL BANTU	999	4.286	0.614	973	1.256	0.468	972	5.679	0.928	973	6.307	1.702	943	39.0	5.0
	POKOMO	154	4.370	0.594	153	1.333	0.500	153	5.797	0.861	132	6.341	1.824	152	40.0	5.3
	MJI KENIA	291	4.857	0.705	291	1.268	0.495	291	5.907	1.058	276	6.562	1.803	276	38.9	5.1
	TAITA	111	4.832	0.683	108	1.454	0.492	108	6.028	0.981	112	5.621	1.866	107	38.3	4.5
Left Hand	POPULATION	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
	SOMALI	374	4.254	0.610	376	1.269	0.484	372	5.723	0.980	372	6.540	1.802	363	36.9	5.0
	CUSHITIC	218	4.257	0.628	217	1.258	0.469	217	5.724	0.924	218	6.482	1.902	215	38.0	4.7
	MAASAI	186	4.226	0.581	185	1.211	0.435	185	5.632	0.947	184	6.283	1.887	183	37.6	4.7
Right Hand	DORZHU	79	4.291	0.558	78	1.269	0.446	78	5.962	1.145	78	6.667	1.768	76	37.8	4.1
	KALENJIIN	399	4.216	0.524	393	1.173	0.379	391	5.806	1.073	392	6.125	1.761	394	37.8	4.4
	KARI MOJONG	118	4.432	0.634	111	1.297	0.497	111	6.171	1.306	117	6.085	1.910	118	39.1	6.2
	LUI	169	4.491	0.725	169	1.243	0.457	169	6.302	1.340	170	6.271	1.899	168	40.0	5.6
	LUYIA	425	4.384	0.655	424	1.210	0.452	424	5.983	1.176	420	6.057	1.673	423	38.1	4.7
	CENTRAL BANTU	990	4.270	0.624	984	1.216	0.459	982	5.876	1.152	972	6.212	1.846	960	38.9	4.2
	POKOMO	155	4.297	0.646	154	1.263	0.495	154	5.903	1.119	132	6.030	1.934	153	40.6	6.2
	MJI KENIA	291	4.385	0.677	289	1.286	0.471	289	6.118	1.277	271	6.169	1.821	287	38.8	5.0
	TAITA	114	4.289	0.662	114	1.316	0.521	114	6.094	1.155	108	5.611	1.917	108	39.8	4.4

Table AP. 1.3.9 : Distribution of finger and palmar indices of triradial intensity and the atd angle in Kenyan ethnic group samples (females)

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE			
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	
Right Hand	POPULATION															
	SOMALI	148	1.453	0.551	147	1.250	0.537	146	1.137	0.401	147	1.429	0.497	148	1.162	0.405
	CUSHITIC	176	1.169	0.571	176	1.261	0.576	175	1.109	0.495	176	1.352	0.514	177	1.124	0.379
	MAASAI	194	1.171	0.563	194	1.294	0.559	194	1.067	0.444	194	1.109	0.536	194	1.103	0.419
	KALENJIIN	377	1.225	0.560	377	1.194	0.502	377	1.053	0.399	376	1.110	0.514	377	1.066	0.323
	KARIMUJONG	90	1.344	0.544	89	1.225	0.510	89	1.146	0.490	89	1.337	0.521	90	1.056	0.313
	LUVIA	107	1.224	0.555	107	1.327	0.510	107	1.168	0.466	107	1.355	0.571	107	1.150	0.408
	CENTRAL HANTU	365	1.293	0.573	366	1.210	0.543	367	1.057	0.418	366	1.265	0.495	367	1.071	0.314
	POKOMO	812	1.345	0.593	813	1.242	0.565	813	1.053	0.398	813	1.264	0.504	812	1.067	0.326
	MJI KENDA	90	1.278	0.687	90	1.144	0.610	90	1.022	0.449	90	1.100	0.550	90	1.056	0.313
Left Hand	POPULATION															
	TAITA	92	1.402	0.575	93	1.103	0.570	93	1.065	0.412	93	1.133	0.530	93	1.086	0.351
	FINGER THREE															
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	
	SOMALI	148	1.486	0.509	149	1.136	0.540	149	1.168	0.538	149	1.409	0.520	149	1.148	0.374
	CUSHITIC	176	1.343	0.602	177	1.208	0.595	176	1.124	0.517	176	1.169	0.550	177	1.136	0.404
	MAASAI	194	1.250	0.644	193	1.249	0.613	195	1.118	0.505	194	1.109	0.573	195	1.128	0.453
	KALENJIIN	376	1.210	0.612	375	1.208	0.547	376	1.117	0.487	376	1.383	0.534	376	1.114	0.394
	KARIMUJONG	89	1.202	0.587	90	1.233	0.562	90	1.144	0.487	90	1.333	0.561	90	1.067	0.361
	LUVIA	107	1.262	0.649	107	1.327	0.563	107	1.178	0.511	107	1.346	0.568	107	1.131	0.391
	CENTRAL HANTU	364	1.283	0.625	365	1.200	0.580	367	1.079	0.492	367	1.256	0.523	366	1.109	0.361
	POKOMO	812	1.347	0.614	811	1.227	0.611	812	1.079	0.503	811	1.322	0.554	810	1.117	0.388
Right Hand	POPULATION															
	MJI KENDA	90	1.256	0.728	90	1.144	0.646	90	1.100	0.542	90	1.278	0.541	90	1.089	0.386
	TAITA	92	1.411	0.674	93	1.109	0.626	93	1.116	0.564	93	1.417	0.528	93	1.101	0.338
	FINGER FIVE															
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	
	SOMALI	148	1.402	0.612	149	1.136	0.540	149	1.168	0.538	149	1.409	0.520	149	1.148	0.374
	CUSHITIC	176	1.343	0.602	177	1.208	0.595	176	1.124	0.517	176	1.169	0.550	177	1.136	0.404
	MAASAI	194	1.250	0.644	193	1.249	0.613	195	1.118	0.505	194	1.109	0.573	195	1.128	0.453
	KALENJIIN	376	1.210	0.612	375	1.208	0.547	376	1.117	0.487	376	1.383	0.534	376	1.114	0.394
	KARIMUJONG	89	1.202	0.587	90	1.233	0.562	90	1.144	0.487	90	1.333	0.561	90	1.067	0.361
Left Hand	POPULATION															
	TAITA	92	1.402	0.612	93	1.109	0.626	93	1.116	0.564	93	1.417	0.528	93	1.101	0.338
	FINGER FIVE															
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	
	SOMALI	148	1.402	0.612	149	1.136	0.540	149	1.168	0.538	149	1.409	0.520	149	1.148	0.374
	CUSHITIC	176	1.343	0.602	177	1.208	0.595	176	1.124	0.517	176	1.169	0.550	177	1.136	0.404
	MAASAI	194	1.250	0.644	193	1.249	0.613	195	1.118	0.505	194	1.109	0.573	195	1.128	0.453
	KALENJIIN	376	1.210	0.612	375	1.208	0.547	376	1.117	0.487	376	1.383	0.534	376	1.114	0.394
	KARIMUJONG	89	1.202	0.587	90	1.233	0.562	90	1.144	0.487	90	1.333	0.561	90	1.067	0.361
	LUVIA	107	1.262	0.649	107	1.327	0.563	107	1.178	0.511	107	1.346	0.568	107	1.131	0.391

Table AP. 1.3.10 : Distribution of common palmar patterns and triradii in Kenyan ethnic group samples (males).

POPULATION	NO	PALMAR PATTERNS AND TRIRADII										PALMAR PATTERNS AND TRIRADII															
		PT	RT	P2	P3	P3T	P4	PH	CH	TEF	T	T1	T2	TB	PT	RT	P2	P3	P3T	P4	PH	CH	TEF	T	T1	T2	TB
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SOMALI	377	2.4	3.5	10.9	43.6	7.8	61.3	5.6	25.3	5.9	57.6	47.3	1.3	24.8													
CUSHITIC	219	4.6	6.4	8.3	41.9	7.8	63.1	3.7	26.6	11.0	58.8	43.1	1.8	27.1													
MAASAI	187	3.2	2.7	8.1	52.7	8.1	53.2	7.5	23.7	5.9	54.3	53.2	1.6	22.0													
DOROBO	79	13.9	15.2	8.9	44.3	10.1	57.0	1.3	24.1	29.1	55.7	45.6	0.0	24.1													
KALENJIN	399	7.8	8.6	6.5	46.4	6.3	61.3	5.0	21.1	16.4	52.1	52.1	1.3	20.8													
KARIMOJONG	118	6.9	4.3	8.5	47.0	8.5	71.8	6.0	29.9	11.2	37.2	66.4	2.6	29.9													
LUO	170	5.3	6.5	15.3	45.3	9.4	72.9	5.9	30.6	11.8	49.4	54.7	2.9	28.8													
LUYIA	425	4.0	4.5	14.8	47.6	6.6	66.7	6.4	22.2	8.5	47.0	58.3	1.9	21.5													
CENTRAL BANTU	991	6.0	7.5	10.7	42.8	6.5	68.1	5.7	19.8	13.4	54.9	49.3	1.9	19.5													
POKOMO	155	4.5	4.5	9.1	50.0	4.5	72.7	5.8	26.6	9.1	42.5	60.1	3.2	27.3													
MJI KENDA	291	8.2	10.0	16.8	49.0	4.8	75.5	3.8	22.3	18.2	40.5	61.2	3.8	21.3													
TAITA	114	6.3	6.3	17.0	55.0	1.8	68.5	9.9	34.2	12.6	40.7	67.6	3.6	34.2													
PALMAR PATTERNS AND TRIRADII																											
POPULATION	NO	PT	RT	P2	P3	P3T	P4	PH	CH	TEF	T	T1	T2	TB	PT	RT	P2	P3	P3T	P4	PH	CH	TEF	T	T1	T2	TB
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SOMALI	377	9.4	10.4	0.1	24.6	8.5	84.5	4.3	22.1	19.8	58.0	46.3	1.1	21.5													
CUSHITIC	219	9.6	11.9	0.1	21.6	7.8	88.5	5.5	20.6	21.6	62.7	38.7	2.8	21.6													
MAASAI	187	9.7	9.7	0.0	20.4	14.5	84.9	5.9	15.1	19.4	57.8	45.9	2.7	15.1													
DOROBO	79	19.2	21.8	0.1	27.8	8.9	86.1	6.4	20.5	41.0	47.4	59.0	0.0	20.5													
KALENJIN	399	20.9	20.4	0.0	21.8	7.5	88.2	3.3	13.8	41.3	54.3	47.1	1.8	13.8													
KARIMOJONG	118	22.9	20.3	0.1	28.0	10.2	97.5	6.8	21.2	43.2	40.5	64.0	3.4	20.3													
LUO	170	26.6	30.2	0.1	27.8	11.8	94.7	8.3	16.0	56.8	51.5	56.8	0.6	15.4													
LUYIA	425	19.5	23.3	0.1	20.5	11.5	93.6	6.6	14.4	42.8	51.7	52.8	2.8	13.6													
CENTRAL BANTU	991	17.7	20.5	0.1	25.3	7.8	86.4	6.3	15.1	38.2	55.1	49.4	2.3	14.6													
POKOMO	155	16.8	17.4	0.1	27.1	9.0	86.5	5.8	22.6	32.9	47.4	57.1	1.9	21.9													
MJI KENDA	291	21.3	25.1	0.1	28.5	5.5	93.8	4.5	21.3	46.4	47.8	55.4	2.4	21.0													
TAITA	114	23.7	20.2	0.1	26.3	7.9	85.1	7.9	23.7	43.9	44.7	61.4	1.8	23.7													

Right Hand

Left Hand

Table AP. 1.3.1.F : Distribution of common palmar patterns and triradii in Kenyan ethnic group samples (females).

PALMAR PATTERNS AND TRIRADII														
POPULATION	NO	PT	RT	P2	P3	P3T	P4	PH	CH	TEF	T	T1	T2	TB
		X	X	X	X	X	X	X	X	X	X	X	X	X
SOMALI	149	1.4	2.0	4.8	38.8	6.8	66.0	10.8	25.0	3.4	52.0	57.4	2.0	25.0
CUSHITIC	180	4.5	5.0	4.5	34.1	3.9	76.0	3.4	24.6	9.5	53.7	48.6	0.0	26.8
MAASAI	196	4.6	6.2	5.6	34.9	5.6	74.4	8.7	25.1	10.8	49.2	59.0	2.6	23.6
KALENJIN	378	9.0	11.1	4.0	35.4	7.4	68.0	6.1	24.3	20.1	42.3	62.8	2.6	22.8
KARIMOJONG	90	3.4	3.4	5.6	32.6	3.4	83.1	9.0	25.8	6.7	47.2	60.7	0.0	27.0
LUO	107	11.2	11.2	11.2	40.2	6.5	79.4	2.8	30.8	22.4	34.6	66.4	1.9	30.8
LUYIA	367	6.3	7.6	7.4	36.8	5.2	77.7	6.3	21.0	13.9	37.9	65.9	2.2	21.8
CENTRAL BANTU	818	5.5	7.5	5.3	34.8	5.3	73.4	5.0	19.9	12.9	49.5	53.7	2.5	20.0
POKOMO	90	7.8	7.8	3.3	43.3	7.8	72.2	6.7	21.1	15.6	37.1	65.2	3.3	22.2
MJI KENDA	179	7.8	9.5	6.1	37.4	2.2	84.4	6.1	25.1	17.3	39.3	65.2	1.7	25.1
TAITA	93	3.3	3.3	9.8	39.1	10.9	73.9	7.6	33.7	6.5	31.5	72.8	3.3	33.7
PALMAR PATTERNS AND TRIRADII														
POPULATION	NO	PT	RT	P2	P3	P3T	P4	PH	CH	TEF	T	T1	T2	TB
		X	X	X	X	X	X	X	X	X	X	X	X	X
SOMALI	149	4.7	5.4	0.0	21.5	7.4	88.6	10.1	19.5	10.1	57.8	49.7	2.7	20.1
CUSHITIC	180	6.7	7.8	0.0	22.2	4.4	85.0	3.9	24.4	14.4	53.9	50.0	0.0	25.0
MAASAI	196	10.2	14.3	0.0	20.4	7.1	92.3	10.2	16.8	24.5	50.5	57.7	2.0	17.3
KALENJIN	378	19.5	19.7	0.0	20.2	8.0	85.4	4.2	17.5	39.1	47.7	56.4	1.6	16.2
KARIMOJONG	90	17.8	15.6	0.0	18.9	11.1	95.6	10.0	24.4	33.3	52.2	54.4	3.3	24.4
LUO	107	21.5	21.5	0.1	21.5	7.5	93.5	4.7	21.5	43.0	42.1	61.7	1.9	20.6
LUYIA	367	14.4	16.3	0.0	17.2	8.7	94.8	6.8	16.9	30.8	40.6	64.9	1.9	16.3
CENTRAL BANTU	818	15.5	16.6	0.0	19.0	7.0	88.5	6.4	16.2	31.8	48.4	54.9	3.7	15.7
POKOMO	90	20.0	20.0	0.0	31.1	4.4	85.6	4.4	18.9	40.0	45.6	56.7	2.2	18.9
MJI KENDA	179	22.9	28.5	0.0	25.1	4.5	91.6	6.1	21.2	51.4	45.3	57.0	3.9	21.8
TAITA	93	12.9	11.8	0.0	25.8	3.2	93.5	3.2	31.2	24.7	29.0	73.1	2.2	29.0

Right Hand

Left Hand

TABLE AP.1.3.12 : FREQUENCIES OF THE NUMBER OF INTERDIGITAL TRIRADII
IN KENYAN ETHNIC GROUP SAMPLES (MALES AND FEMALES).

	NO	RIGHT HAND					NO	LEFT HAND				
		3	4	5	6	7+		3	4	5	6	7+
		%	%	%	%	%		%	%	%	%	%
MALES:												
SOMALI	373	3.8	74.0	15.0	5.6	0.8	373	4.0	71.3	20.1	4.3	0.3
CUSHITES	229	1.3	80.3	13.5	4.4	0.4	229	3.1	74.7	16.2	5.7	0.4
DOROBO	79	2.5	75.9	20.3	1.3	0.0	79	1.3	72.2	22.8	3.8	0.0
MAASAI	186	3.8	72.6	19.9	3.8	0.0	186	6.5	66.1	25.8	1.6	0.0
KALENJIN	400	2.8	76.5	18.3	2.3	0.3	400	3.3	74.0	20.8	2.0	0.0
KARIMOJONG	117	0.9	68.4	24.8	5.1	0.9	118	0.8	61.9	30.5	6.8	0.0
LUO	170	1.8	60.0	29.4	8.8	0.0	169	1.8	58.0	30.8	8.3	1.2
LUYIA	425	3.1	64.9	25.2	6.6	0.2	425	4.7	61.4	28.9	4.7	0.2
CENTRAL BANTU	1004	2.7	71.5	20.3	5.3	0.2	1005	4.9	68.1	22.7	4.2	0.2
POKOMO	154	1.3	64.9	29.2	4.5	0.0	155	5.2	65.2	24.5	5.2	0.0
KJI KENDA	291	2.4	59.5	20.2	10.0	0.0	291	2.7	63.9	25.8	7.2	0.3
TAITA	111	0.0	67.6	21.6	10.8	0.0	114	4.4	68.4	21.9	4.4	0.9
FEMALES:												
SOMALI	147	4.1	76.9	16.3	2.0	0.7	149	4.0	73.8	17.4	4.0	0.7
CUSHITES	181	2.2	79.6	14.4	3.3	0.6	182	4.9	77.5	17.0	0.5	0.0
MAASAI	204	4.9	73.0	18.6	3.4	0.0	205	4.9	70.7	20.0	4.4	0.0
KALENJIN	378	3.2	80.4	14.6	1.6	0.3	376	4.3	77.1	17.0	1.1	0.6
KARIMOJONG	89	3.4	70.8	23.6	2.2	0.0	90	1.1	71.1	25.6	2.2	0.0
LUO	107	4.7	60.7	27.1	7.5	0.0	107	3.7	66.4	26.2	3.7	0.0
LUYIA	367	3.8	69.8	22.1	4.1	0.3	367	5.2	67.6	24.0	3.0	0.3
CENTRAL BANTU	825	2.7	78.3	16.0	2.9	0.1	825	4.1	76.4	17.2	2.3	0.0
POKOMO	90	1.1	74.4	21.1	2.2	1.1	90	0.0	74.4	25.6	0.0	0.0
KJI KENDA	188	0.5	75.0	18.6	5.3	0.5	188	3.2	72.9	20.7	2.7	0.5
TAITA	92	2.2	68.5	22.8	5.4	1.1	93	7.5	63.4	23.7	4.3	1.1

TABLE AP.1.3.13 : SIGNIFICANCE OF ETHNIC GROUP VARIATION FOR
A RANGE OF DERMATOGLPHIC ATTRIBUTES:
A: ANALYSIS OF VARIANCE:

ATTRI- BUTE	MALES				FEMALES			
	RIGHT HAND		LEFT HAND		RIGHT HAND		LEFT HAND	
	F	P	F	P	F	P	F	P
RFR1	4.26	.000	8.61	.000	2.91	.001	5.52	.000
FR2	4.78	.000	5.88	.000	2.58	.004	4.76	.000
FR3	2.62	.003	5.23	.000	1.64	.090	3.12	.001
FR4	4.05	.000	3.81	.000	4.39	.000	4.68	.000
FR5	3.62	.000	4.13	.000	2.98	.001	4.24	.000
TRADRC	5.05	.000	6.95	.000	2.09	.022	4.30	.000
FU1	5.36	.000	6.16	.000	4.85	.000	6.87	.000
FU2	2.94	.001	2.14	.015	4.47	.000	3.64	.000
FU3	1.81	.047	1.90	.035	3.75	.000	2.01	.029
FU4	3.79	.000	2.31	.008	4.33	.000	1.01	.436
FU5	2.86	.001	3.09	.000	2.07	.024	.83	.596
TULNRC	4.51	.000	3.31	.000	6.02	.000	3.28	.000
F1	4.00	.000	6.87	.000	2.43	.007	4.43	.000
F2	5.06	.000	4.91	.000	3.28	.000	3.71	.000
F3	2.94	.001	5.36	.000	1.99	.031	2.76	.002
F4	4.00	.000	3.62	.000	4.53	.000	4.07	.000
F5	3.82	.000	4.37	.000	3.10	.000	4.15	.000
IRC	5.12	.000	6.07	.000	2.80	.002	3.68	.000
ABS1	5.27	.000	6.64	.000	3.55	.000	5.36	.000
ABS2	4.82	.000	5.03	.000	4.16	.000	4.17	.000
ABS3	3.26	.000	3.97	.000	3.72	.000	3.39	.000
ABS4	4.29	.000	3.18	.000	4.70	.000	2.85	.002
ABS5	4.20	.000	5.10	.000	3.40	.000	3.18	.000
TABSRC	5.66	.000	5.68	.000	4.56	.000	4.17	.000
D1	3.15	.000	4.59	.000	4.00	.000	3.99	.000
D2	2.61	.003	2.57	.003	2.70	.003	2.76	.002
D3	2.57	.003	2.15	.015	2.91	.001	1.46	.114
D4	2.61	.003	2.90	.001	3.23	.000	2.12	.020
D5	1.96	.029	3.14	.000	1.95	.035	.52	.879
IFP1	3.89	.000	3.66	.000	4.14	.000	2.70	.003
AB	2.80	.001	2.97	.001	2.49	.006	1.97	.033
BC	4.09	.000	3.47	.000	2.75	.002	2.83	.002
CD	2.17	.014	.67	.771	2.96	.001	1.74	.067
TPRC	3.09	.000	1.52	.115	2.27	.012	1.95	.034
TD	5.39	.000	4.18	.000	2.91	.001	1.99	.031
TOTHI	3.18	.000	3.05	.000	2.75	.002	2.28	.012
TPLMI	4.02	.000	5.27	.000	2.53	.005	3.32	.000
ATG	11.26	.000	10.55	.000	7.18	.000	8.14	.000

CHI SQUARE PROBABILITIES FOR MAJOR PALMAR PATTERNS
AND TRIRADII:

HAND ATTRI- BUTE	MALES		FEMALES	
	R	L	R	L
	P	P	P	P
I	.014	.000	.053	.000
IR	.008	.000	.008	.000
II	.000	.010	.000	.010
III	.209	.229	.209	.229
IIII	.303	.044	.302	.044
IV	.001	.048	.000	.048
H	.542	.794	.542	.794
H	.041	.052	.041	.052
TEF	.001	.000	.001	.000
F	.000	.005	.000	.005
II	.000	.000	.000	.000
I2	.374	.986	.374	.986
IB	.003	.001	.003	.001

Table AP. 1.4.1 : Distribution of radial ridge counts in Kenyan minimal ethnic population samples (right hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	218	16.0	6.2	218	18.3	5.4	219	10.6	4.6	219	13.9	5.7	219	12.2	4.8
WENDILE	151	18.0	5.2	150	10.6	5.5	151	11.3	4.6	150	13.6	4.5	147	12.2	3.9
GARIBA	127	16.1	6.1	27	10.7	4.6	27	10.0	3.9	26	14.5	5.0	27	12.9	3.5
UDHAN	127	15.8	6.6	126	9.7	5.6	126	10.7	5.2	125	14.1	5.7	125	12.7	4.5
HURJI	63	17.0	6.6	64	10.2	5.6	64	11.2	5.1	64	13.7	5.3	64	12.3	4.6
SAMBUHU	86	15.3	5.8	84	10.5	5.3	86	10.2	4.9	84	13.1	5.3	85	11.7	4.1
KADJIAJO MAASAI	63	14.6	6.6	63	10.1	6.1	63	11.1	4.8	63	13.3	5.9	63	11.4	5.3
NARUK MAASAI	36	13.6	6.0	36	10.3	5.1	36	9.1	5.1	36	12.1	6.0	36	11.2	4.3
NGHEJI	41	16.1	6.1	41	10.9	5.9	40	12.4	4.1	41	14.6	5.3	41	12.4	4.4
MUKOGODIO	38	17.9	5.6	38	11.5	6.2	38	11.3	4.7	38	13.6	5.9	38	12.4	5.4
KONY	37	11.0	6.5	37	8.7	4.5	37	8.0	4.6	37	10.7	6.2	37	8.9	4.8
MANGI	52	14.6	5.3	52	9.7	4.9	52	10.7	5.6	52	12.2	5.0	52	11.4	3.7
KIPISIGIS	54	15.3	6.7	54	10.7	5.5	55	11.7	4.3	54	13.6	5.1	55	12.8	4.1
TUGEN	107	14.1	5.9	107	8.6	5.3	105	9.9	4.7	107	12.9	5.0	107	11.6	4.5
KRYD	50	14.1	5.1	49	9.4	4.5	49	11.0	3.9	49	13.0	5.3	50	11.2	4.2
MARAKWET	50	15.5	5.1	50	9.5	6.3	50	11.4	4.2	50	13.5	4.6	50	11.7	4.7
PUKOT	45	13.1	6.2	45	10.1	4.2	45	10.0	4.3	44	12.8	4.4	45	10.0	4.4
IFESO	52	13.0	6.9	52	8.1	5.7	51	9.2	5.7	52	12.3	5.3	52	10.7	4.3
TURKANA	62	14.3	6.0	63	9.3	5.8	65	10.0	5.0	65	12.6	6.3	62	11.5	5.1
LUO	169	14.0	5.7	168	9.5	5.1	167	10.4	4.7	168	13.6	5.2	168	11.7	4.5
GUSII	50	15.0	6.7	49	9.2	5.7	49	10.4	4.9	49	13.6	5.7	49	12.3	4.6
TIRIKI	26	12.6	7.6	26	7.5	6.0	26	10.2	5.4	26	13.2	5.4	26	12.2	4.2
MARAGOLI	26	12.6	6.7	26	7.6	5.6	26	10.0	4.6	26	12.4	5.1	26	11.2	4.5
BUNYORE	30	15.2	5.4	30	9.5	5.2	30	11.6	3.8	29	16.1	4.6	30	13.0	3.6
IDAKHO	39	14.1	6.9	39	11.3	5.4	39	11.5	5.1	39	13.3	4.6	39	11.7	3.6
MARAMA	25	15.4	6.8	25	9.6	4.6	25	12.2	3.9	25	15.6	5.1	25	13.4	4.5
WANGA	25	16.6	6.4	25	6.2	6.3	25	10.4	4.9	25	14.1	4.4	25	11.5	4.2
MARACH	25	15.4	7.0	25	9.3	6.3	25	11.0	5.3	25	13.6	6.3	25	11.6	4.0
MUKHAYO	22	13.3	6.8	22	8.6	5.7	22	10.4	4.3	22	12.5	5.6	22	10.5	4.5
SAMIA	24	13.8	5.7	24	7.4	5.5	24	10.1	5.5	24	15.1	6.7	24	13.2	5.4
BUTSOTSO	20	15.8	4.7	20	10.2	4.9	20	12.3	4.1	20	16.1	4.2	20	13.1	3.2
BURVALA	25	14.5	6.3	25	8.2	6.9	25	9.3	5.5	25	13.3	6.6	25	10.8	5.7
KABRAS	26	14.0	6.3	25	9.5	4.9	24	12.1	4.8	25	14.4	4.2	26	12.2	3.5
BUKUSU	58	13.3	6.0	60	6.3	4.7	60	9.1	4.9	58	10.8	5.0	58	9.8	4.7
KIANHU KIKUYU	64	16.9	7.2	64	11.0	5.5	63	11.4	5.0	64	14.0	5.5	64	11.9	5.2
MURANGA KIKUYU	55	15.4	7.2	64	9.1	5.9	55	10.7	5.3	55	13.6	6.1	55	11.6	4.9
NYERI KIKUYU	49	14.0	7.1	48	8.0	5.4	48	9.0	5.6	49	11.9	6.0	49	10.6	4.4
NDIA	55	14.6	6.1	56	6.9	5.5	56	10.2	3.8	56	13.2	5.4	56	11.3	4.4
KAMBA	73	15.2	6.2	73	8.9	5.8	75	10.6	4.4	74	13.4	5.5	71	11.3	4.0
EMBU	67	15.1	7.2	66	6.6	4.7	67	9.6	5.2	65	12.6	5.5	67	11.0	4.4
MNERE	63	14.5	6.6	62	9.3	5.7	63	11.4	4.9	63	14.0	5.0	63	11.8	4.5
CHUKA	73	15.9	5.5	71	6.9	5.0	73	9.8	4.8	73	12.8	4.7	73	10.9	4.2
MUTHAMBI	76	14.9	6.1	75	8.6	5.9	76	9.5	4.9	76	13.0	5.3	76	11.2	4.6
MWIMBI	68	15.2	5.6	68	8.1	4.9	59	8.6	4.9	60	11.4	5.7	60	10.8	4.2
IGOTI	77	15.7	6.3	78	9.4	5.9	77	10.6	5.4	76	13.9	6.2	77	10.9	5.4
IGOTI	61	13.7	6.2	61	8.9	5.1	60	9.9	4.5	59	12.8	4.7	60	11.7	4.0
TIGANIA	64	14.1	6.6	64	8.1	4.9	64	9.7	4.6	64	12.5	5.5	64	10.7	4.5
IGUMBE	62	10.0	5.3	64	6.3	5.2	64	9.7	4.6	63	13.0	5.2	64	11.7	4.3
THARAKA	54	14.4	7.1	53	9.3	5.9	54	10.8	5.3	54	13.6	5.5	54	11.0	4.7
ODKOMO	92	13.9	6.6	92	8.9	6.0	93	10.4	5.5	92	13.8	5.5	93	12.4	4.8
MALAKOTE	40	15.5	5.6	39	10.3	5.4	39	10.6	4.5	39	13.3	4.1	40	11.8	4.3
GIKIANA	49	13.5	7.2	49	8.1	5.2	49	9.6	5.2	49	14.6	4.7	49	11.7	3.7
CHONYI	78	13.7	6.9	78	8.1	5.7	78	10.5	5.1	79	13.8	5.5	79	11.6	4.7
MID WJI KENDA	32	15.4	5.9	32	9.0	5.0	32	10.4	5.4	32	13.7	5.6	32	11.8	4.5
OIGOI	114	15.4	6.5	115	10.2	5.1	116	11.5	4.8	116	15.5	4.9	115	12.9	4.6
LAITA	54	14.2	7.3	55	9.1	5.4	55	9.3	5.2	54	12.3	5.3	53	10.3	4.2
LAUETA	57	13.1	6.7	56	7.6	5.3	56	9.0	5.2	56	11.7	5.9	56	10.9	5.3

Table AP. 1.4.2 : Distribution of radial ridge counts in Kenyan minimal ethnic population samples (left hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SUMALI	218	15.2	5.9	221	9.7	5.4	221	11.3	5.1	221	13.4	6.1	216	12.2	4.0
RENDILLE	150	15.3	5.2	145	9.7	5.4	144	11.3	5.2	147	13.5	4.4	148	11.8	3.6
GAHRA	27	14.3	5.7	27	9.3	5.0	27	10.4	5.0	27	13.3	4.8	27	12.0	3.2
ROHAI	126	14.3	6.7	127	8.3	5.7	126	10.3	5.0	125	13.0	6.0	124	12.6	4.1
RUFJI	64	15.4	6.2	64	9.1	5.4	64	10.5	5.4	64	13.4	5.7	64	12.2	4.7
SAMBURO	85	14.0	5.8	84	8.7	5.5	84	9.5	5.2	85	12.2	5.6	82	11.5	4.2
KADJIAO MAASAI	63	12.8	7.3	63	9.4	5.0	61	10.6	5.5	61	12.2	6.1	63	11.3	5.1
NAROK MAASAI	36	11.3	6.1	36	8.9	5.0	36	9.1	6.0	36	12.1	5.5	36	10.8	4.8
NGWESI	39	14.9	5.9	40	10.5	5.5	39	12.2	4.4	40	13.1	4.6	40	11.0	4.8
MUKODDO	38	16.0	5.3	38	10.4	6.0	37	11.7	5.5	38	14.0	6.0	38	12.0	5.9
KONY	37	9.6	5.8	37	5.9	5.2	37	7.6	5.6	37	10.1	5.5	37	8.8	4.4
MANDI	52	13.9	5.2	52	8.9	4.9	52	10.6	4.8	52	12.4	4.4	52	11.8	4.1
KIP-SIGIS	55	13.7	6.9	55	8.3	5.3	55	10.8	4.7	55	13.3	5.5	55	11.9	4.0
TUGEN	106	12.6	6.0	104	7.6	5.5	106	9.7	5.4	107	12.8	5.0	106	11.0	4.7
KEYO	50	12.4	5.2	50	7.9	5.7	49	10.6	5.5	50	13.3	4.8	49	11.0	3.6
MARAKWEI	50	12.9	5.9	50	8.9	4.9	50	10.6	5.5	50	12.9	5.9	50	11.2	4.1
POKOT	43	12.5	6.3	44	8.5	5.4	44	10.4	4.5	44	11.8	5.1	45	10.4	4.4
ITESH	52	10.8	7.1	52	7.5	5.3	52	8.6	5.9	51	11.7	5.1	52	10.4	4.1
TURKANA	63	13.0	5.6	64	8.1	5.5	65	9.4	5.5	63	12.7	5.8	63	11.0	4.3
LUD	168	12.6	6.2	169	8.5	5.4	169	10.2	5.2	169	13.1	5.3	169	11.1	4.6
GUSII	50	12.9	5.9	50	8.1	5.7	50	10.1	5.1	50	13.0	5.3	50	12.0	4.2
TIKIKI	26	11.7	8.4	26	8.3	5.7	26	9.4	5.6	26	13.1	4.5	26	10.9	3.1
MARAGOLI	26	10.9	6.9	26	6.1	5.1	26	9.2	5.6	26	11.7	5.4	26	10.3	3.8
RUWYIRE	30	13.6	5.6	28	9.9	4.3	30	11.7	4.1	30	13.0	3.3	30	12.3	2.9
UDAKHI	39	12.4	7.2	39	7.8	5.2	39	10.0	5.0	38	13.8	4.4	39	11.2	3.6
MARAMA	25	12.7	6.2	25	9.7	4.5	25	12.6	4.3	25	15.0	4.1	25	12.9	4.4
WANGA	25	13.1	5.3	24	9.9	5.3	25	7.9	5.7	25	11.4	5.7	25	10.0	5.1
MARACH	25	13.6	6.4	25	9.2	5.8	24	11.1	5.6	25	13.4	5.8	25	11.0	5.1
RUHAYO	23	11.5	5.7	23	8.5	6.1	23	10.7	5.5	23	11.6	5.1	23	9.3	4.6
SANIA	24	12.1	5.6	24	7.6	5.7	24	10.5	5.1	24	14.2	5.4	24	11.7	4.5
BUTSOTSO	20	13.5	5.7	20	8.9	5.9	20	12.0	4.8	20	14.8	4.4	20	13.1	3.7
BUNYALA	25	13.4	6.3	25	7.6	6.0	25	9.8	5.4	25	12.2	6.5	25	10.8	5.3
KARWAS	26	11.5	7.1	26	9.9	5.8	26	10.7	5.7	26	13.7	9.2	26	12.1	4.1
HUKUSU	58	10.8	6.2	60	6.8	4.4	61	8.1	5.0	58	10.6	4.6	60	9.2	4.3
KIAMBU KIKUYU	63	15.0	6.1	63	9.7	5.9	64	11.2	5.3	63	13.3	5.2	63	11.0	5.0
MURANGA KIKUYU	56	14.5	7.1	56	8.3	5.8	56	9.7	5.7	56	12.3	5.8	56	11.3	4.9
NYERI KIKUYU	49	11.8	6.9	48	6.9	6.0	49	8.1	6.0	48	11.0	5.9	49	9.7	4.7
NDIA	53	12.1	6.1	53	6.7	5.9	55	9.2	5.0	52	11.9	4.6	56	11.0	4.5
KAMBA	73	13.9	6.5	75	8.1	5.4	74	9.5	5.6	72	12.2	5.1	71	11.0	4.1
EMBU	87	12.1	6.6	86	6.7	5.4	87	9.1	5.7	86	11.2	6.0	87	10.4	4.7
NIERE	62	12.6	6.9	63	9.7	4.9	62	11.2	5.4	63	13.8	5.3	62	11.6	4.6
CHUKA	74	12.6	5.6	73	6.7	4.8	72	8.8	4.4	72	12.2	4.9	73	10.3	4.3
MUTHAMBI	75	12.3	6.0	75	6.9	5.1	76	8.8	5.3	75	11.3	5.0	74	10.4	4.1
MUTHIWI	61	12.1	5.6	60	7.4	4.9	61	8.4	5.1	60	11.2	4.7	61	9.8	4.4
IGOTI	75	12.9	6.0	73	8.2	5.7	76	10.1	5.4	75	12.5	6.2	76	10.8	5.2
IMENTI	60	11.4	6.3	61	6.9	4.8	59	9.1	4.7	60	11.2	5.2	59	10.3	4.4
ITIGARRA	64	13.1	5.7	64	7.5	5.6	64	9.9	5.0	64	12.4	5.6	64	10.7	4.4
IGERNE	65	13.0	6.1	63	7.0	5.1	65	9.0	5.1	65	12.1	4.9	64	10.9	4.3
THARAKA	54	13.2	6.6	52	8.1	5.4	53	10.7	6.3	53	13.4	5.5	54	11.7	5.1
POKOMO	92	11.7	6.2	90	7.2	5.7	90	9.4	5.7	92	12.8	5.6	93	11.7	4.7
MAKADOTE	41	13.6	4.2	41	9.2	5.0	41	10.1	4.9	41	12.5	4.3	41	10.7	4.2
GIKIANA	48	10.9	7.0	46	6.1	5.4	48	9.7	4.8	49	12.3	4.4	49	10.7	3.9
CHONYI	77	11.8	6.8	74	7.5	5.2	78	10.3	4.9	78	13.2	5.4	77	11.0	4.3
MLO 411 KENDA	31	12.8	5.9	31	7.3	5.7	31	10.3	5.4	32	13.0	5.0	31	10.7	4.5
DIGO	114	12.5	6.2	115	9.2	5.1	116	11.8	4.5	115	14.2	4.6	115	11.4	4.0
YASSA	55	13.3	7.0	52	8.0	5.7	54	9.7	5.5	54	11.6	5.1	56	9.6	4.5
YAVETA	54	10.9	6.4	55	6.5	5.2	52	8.4	5.1	55	11.2	5.5	56	10.6	5.6

Table AP. 1.4.3 : Distribution of radial ridge counts in Kenyan minimal ethnic population samples (right hand females).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	14.2	5.6	103	10.0	4.6	103	10.1	4.1	103	12.7	5.6	103	11.2	4.4
RENDILLE	45	15.6	5.1	44	11.0	5.2	42	11.0	4.8	44	13.7	5.1	43	12.2	3.7
GABBARA	63	15.4	5.0	61	10.3	5.2	61	11.5	4.1	62	13.7	5.3	62	11.7	4.4
BORAN	56	14.5	6.1	56	9.1	5.8	55	9.2	5.0	55	13.4	5.0	57	11.2	4.7
BURJI	55	13.2	6.2	54	7.8	5.4	55	9.4	4.9	56	11.9	6.1	55	11.2	5.1
SAMBURO	42	13.7	4.8	43	10.0	5.7	42	10.1	5.3	42	13.3	6.3	42	12.1	4.9
KADJIADO MAASAI	150	13.0	6.1	150	9.7	5.2	149	9.9	4.8	150	12.6	6.0	150	10.9	5.0
KONY	23	11.3	5.4	23	7.5	4.3	23	7.9	3.9	23	9.9	5.1	23	8.7	3.8
NANDI	50	11.9	6.1	50	8.9	4.7	50	9.6	4.7	49	13.5	5.3	50	11.1	5.0
KIPSIGIS	43	13.8	6.0	43	9.8	5.4	43	10.1	5.1	43	12.0	5.4	43	11.1	4.7
TIGEN	102	14.5	5.1	102	8.7	4.7	101	10.3	3.9	99	11.9	4.9	101	10.8	4.2
KEO	50	12.2	6.4	50	8.9	4.9	50	9.3	4.4	50	11.7	5.1	50	9.8	4.9
MARAKWET	56	13.0	5.7	56	8.8	5.5	56	9.3	4.8	56	11.6	5.8	56	10.0	4.2
POKOT	53	12.9	5.6	53	9.7	3.9	53	10.0	4.9	52	11.5	5.3	53	10.1	6.7
ITESO	47	13.6	5.6	47	9.7	5.8	46	10.3	4.7	47	12.6	5.5	47	10.9	4.8
TURKANA	43	14.0	5.4	40	10.5	5.3	42	11.5	4.4	42	12.9	5.8	43	12.3	4.7
LUO	107	12.6	5.9	107	9.6	4.8	107	10.4	4.4	107	13.3	5.6	107	11.4	4.9
GUSII	51	14.5	5.6	50	9.1	5.0	51	10.2	5.1	50	13.5	5.9	51	11.2	5.2
TIRIKI	25	14.4	6.0	25	7.9	5.1	25	11.6	4.8	25	14.2	6.1	25	12.9	4.8
MARAGOLI	24	11.8	4.9	24	9.2	4.6	24	10.0	3.7	24	14.6	3.5	24	10.7	4.5
HUNYORE	20	12.5	4.8	20	7.8	4.7	20	8.8	3.8	20	13.3	6.2	20	11.2	4.0
LOAKHO	15	11.9	6.0	15	7.3	5.4	15	8.9	4.4	15	12.0	5.1	15	11.1	4.3
MARAKA	25	13.2	6.0	25	9.1	5.2	25	9.9	5.4	25	14.4	5.5	25	12.8	5.0
WANGA	24	11.2	7.2	23	7.5	5.0	24	10.0	5.1	24	11.8	5.7	24	9.5	4.1
MARACH	24	13.1	7.0	23	8.8	5.3	23	10.5	4.6	23	13.9	5.9	23	10.3	4.3
BUKHAYO	26	12.4	4.2	26	8.4	4.7	26	9.3	4.1	26	13.5	5.0	25	11.1	3.8
SAMIA	26	14.2	5.3	26	10.2	4.2	26	12.0	4.6	26	14.3	5.4	26	13.3	4.6
BUTSITSO	27	12.0	6.1	27	7.2	4.1	27	8.3	4.8	27	13.3	5.2	27	11.4	4.8
BUNYALA	24	13.8	6.4	25	8.6	5.0	25	8.8	5.2	25	13.0	5.7	25	11.8	4.0
KABRAS	26	12.5	6.5	26	8.3	6.0	26	9.8	5.6	26	13.1	5.2	26	11.1	4.1
HUKUSU	25	10.1	5.6	24	7.1	4.6	27	9.3	4.4	28	11.2	5.2	25	8.9	4.7
KIABHU KIKUYU	38	14.1	7.2	38	9.2	5.3	38	10.4	5.3	38	12.4	7.2	37	10.7	5.9
MURANGA KIKUYU	45	13.5	6.4	45	8.6	4.8	46	9.3	5.6	45	11.6	6.1	45	9.0	5.2
NYERI KIKUYU	50	13.5	5.9	51	9.3	5.0	51	9.9	4.5	50	11.9	6.0	51	11.0	3.8
NDIA	64	13.3	6.5	66	9.6	5.4	65	10.3	4.8	66	12.4	5.3	66	11.4	4.7
KAMBA	41	14.7	5.1	42	9.1	5.5	42	11.9	4.0	42	15.0	5.6	40	13.1	4.5
EMBU	72	14.4	6.1	72	8.9	5.4	72	9.9	4.6	72	12.6	4.8	72	10.3	4.2
MBERE	66	13.2	5.4	66	9.3	4.9	66	9.4	4.9	66	11.6	5.7	65	9.8	4.3
CHUKA	58	14.7	6.3	58	9.4	5.5	58	10.1	5.3	55	12.3	5.8	55	10.9	4.6
MUTHAMBI	78	13.3	5.7	78	8.8	4.8	80	9.8	4.1	78	11.9	4.5	76	9.7	4.2
MWIMBI	43	12.3	6.6	41	9.0	5.3	43	10.4	4.9	42	13.0	5.9	43	10.6	4.9
IGODJI	92	13.3	6.9	94	9.2	5.6	93	10.2	5.6	94	13.1	5.7	94	10.6	5.1
INENTTE	39	12.2	5.9	39	8.3	4.6	39	9.0	5.1	39	11.6	5.5	39	9.9	5.0
VIGANIA	36	14.2	6.2	36	9.2	5.3	36	10.0	5.1	36	11.6	6.4	36	9.6	5.3
IGEMBE	32	13.5	7.4	33	8.9	5.4	33	10.2	5.4	33	12.6	6.2	33	10.8	5.3
THARAKA	46	14.2	6.7	46	9.1	4.5	46	10.2	4.7	46	12.8	5.3	46	11.2	5.4
POKOMO	90	11.7	6.9	89	8.4	5.3	90	9.8	5.1	90	13.9	6.3	89	12.1	5.0
GIRIAMA	34	11.4	7.5	34	7.3	5.5	34	9.5	5.2	34	13.3	5.6	33	10.4	5.2
CHUMVI	13	12.1	7.2	13	7.3	6.0	13	10.2	4.2	13	13.2	6.1	13	10.9	5.3
MID MJI KENYA	27	11.4	6.5	27	8.0	5.0	27	11.0	5.1	27	14.0	5.7	27	11.2	4.1
DIGO	99	14.3	6.7	100	10.6	5.1	99	11.8	4.6	100	15.5	5.1	99	12.3	4.2
TAITA	45	12.4	6.2	45	8.5	5.9	45	10.2	5.1	45	12.6	5.9	45	10.5	4.3
TAVERA	46	12.4	6.6	46	9.7	4.9	46	9.9	5.1	46	12.1	5.2	47	10.3	4.1

Table AP. 1.4.4 : Distribution of radial ridge counts in Kenyan minimal ethnic population samples (left hand females).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	ND	MEAN	SD	ND	MEAN	SD	ND	MEAN	SD	ND	MEAN	SD	ND	MEAN	SD
SOMALI	103	13.7	5.6	103	9.8	4.9	102	9.8	5.0	102	12.6	5.2	101	11.3	4.5
RENDILLE	46	14.5	5.6	46	9.3	5.1	45	10.4	5.1	45	13.2	4.6	45	11.7	4.1
GABRA	63	13.6	5.7	61	8.2	5.1	61	10.0	5.4	61	12.7	5.6	62	11.1	4.5
BORAN	57	12.1	6.7	57	6.6	5.3	58	8.6	5.7	58	12.1	5.5	58	11.1	4.3
BURJI	55	12.4	6.6	56	6.6	5.2	56	8.4	5.8	56	12.0	5.6	59	11.1	5.1
SAMBURU	45	11.6	5.3	42	8.7	6.2	43	9.7	6.1	43	12.6	6.8	43	11.3	4.7
KADJIADO MAASAI	150	10.6	6.1	149	7.9	5.5	150	8.8	5.9	148	11.9	5.9	149	10.5	4.9
KONY	23	9.7	4.9	23	5.4	4.2	23	7.0	3.9	23	10.5	4.4	23	8.3	4.2
NANDI	50	10.1	6.3	50	8.0	5.5	50	9.2	5.0	50	12.1	5.8	50	10.7	4.6
KIPSIGIS	43	11.9	6.1	43	9.1	4.7	43	8.9	5.2	43	11.0	5.9	43	9.7	5.3
TUGEN	100	12.1	5.3	94	7.0	5.0	96	8.4	5.0	95	11.0	5.0	101	9.8	4.7
KEYO	50	11.2	6.3	50	8.9	5.1	50	8.2	5.2	50	11.2	5.6	50	8.8	4.5
MARAKWET	56	10.2	7.1	56	5.9	4.7	56	6.5	5.3	56	10.9	5.4	56	9.7	4.2
POKOT	51	11.6	6.1	52	8.3	5.0	51	9.8	5.6	52	11.3	6.3	51	9.4	5.0
ITESO	47	9.9	5.7	47	6.0	5.0	47	9.9	5.0	47	11.9	5.2	47	9.6	4.3
KURKANA	42	11.2	5.9	43	8.2	5.4	43	10.4	5.9	43	11.7	5.2	42	11.0	4.7
LUO	107	10.7	6.2	107	8.2	5.1	107	9.9	4.9	107	12.7	5.7	107	11.1	4.4
GUSII	51	12.1	6.0	51	6.9	5.8	51	8.8	5.8	51	11.7	6.4	50	10.9	5.0
TIRIKI	25	12.8	5.8	25	7.4	5.9	25	10.4	5.6	25	13.1	4.9	25	11.9	4.2
MARAGOLI	24	9.9	4.9	24	6.1	4.8	24	6.4	5.1	24	11.5	4.8	24	9.7	3.3
BUNYORE	20	10.8	5.8	19	6.3	4.7	20	7.1	5.3	20	10.8	5.8	20	9.5	4.0
IDAKHO	15	12.3	5.8	15	7.1	5.8	15	8.7	4.7	15	10.7	5.7	15	10.2	4.3
MARAMA	25	11.1	6.4	25	8.0	5.3	25	9.4	5.6	25	14.0	4.3	25	11.6	4.5
WANGA	24	9.7	6.9	24	5.8	4.9	24	7.2	5.8	24	10.1	6.7	24	9.0	3.8
MARACH	24	10.5	6.4	24	7.2	5.4	24	7.9	6.1	23	12.0	6.1	24	10.0	4.1
BUKHATO	26	10.5	5.6	26	6.3	4.7	26	8.3	5.4	26	11.1	4.5	26	8.3	3.6
SANIA	26	12.1	5.8	26	9.8	4.4	26	10.8	5.0	26	13.0	5.5	26	12.7	4.8
BUTSOTSO	26	8.3	5.8	27	5.8	4.6	26	6.7	4.6	26	11.7	5.1	27	10.4	4.8
BUNYALA	25	11.2	6.1	24	7.0	5.9	25	9.5	5.4	25	11.5	7.1	24	10.8	5.0
KABRAS	26	10.7	6.7	26	6.7	5.6	26	7.7	5.8	26	12.4	4.9	26	10.5	4.1
BUKUSU	24	9.1	5.5	26	6.5	5.2	27	6.9	4.8	26	9.8	4.9	26	7.8	4.6
KIAMBU KIKUYU	38	11.6	6.8	38	7.4	5.1	38	9.3	5.7	38	11.9	6.7	38	9.2	5.7
MURANGA KIKUYU	45	11.6	5.9	45	6.8	5.2	45	8.2	6.2	44	9.5	6.7	45	9.0	5.5
NYERI KIKUYU	51	11.3	6.0	51	6.3	5.4	51	8.4	5.8	50	10.8	5.7	50	10.0	4.2
NOTA	65	12.0	5.8	63	7.5	5.3	64	9.6	5.6	66	11.1	5.5	65	10.5	4.7
KAMBA	42	13.4	6.1	42	7.7	4.9	42	10.5	5.0	42	13.0	5.3	42	12.2	4.0
EMBU	72	12.4	6.1	72	7.4	5.2	72	8.7	5.2	72	11.5	5.3	72	9.5	4.5
MBERE	62	10.6	5.3	64	6.6	5.1	64	7.9	5.0	61	9.5	5.4	62	9.1	4.2
CHUKA	60	12.9	5.7	58	7.5	5.3	60	8.9	5.7	60	11.6	4.8	56	9.5	4.3
MUTHAMBI	79	11.3	5.4	79	6.2	4.8	80	8.0	4.9	79	9.6	4.8	78	9.2	4.2
MWIMBI	43	10.5	5.4	43	6.3	5.4	43	8.7	4.9	43	11.3	5.0	43	10.0	4.9
IGODJI	94	11.3	6.2	95	7.6	5.3	92	9.3	5.6	93	11.4	5.8	92	9.8	4.9
IMENYI	39	9.3	5.7	39	5.4	4.8	39	7.8	5.5	39	10.2	5.7	39	9.2	4.4
TIGANIA	36	11.6	6.5	36	7.8	5.8	36	9.0	5.3	36	11.5	6.3	36	9.1	4.3
IGEMBE	33	12.2	6.9	33	6.8	5.1	33	8.8	5.6	33	11.2	6.3	33	9.4	5.2
THARAKA	46	13.0	5.8	46	8.0	5.5	46	9.7	5.2	46	13.1	5.3	46	10.8	5.3
POKOMO	90	9.7	6.3	88	6.9	5.6	90	9.2	5.7	90	12.4	6.5	89	10.9	5.1
GIRIANA	34	8.7	6.9	34	5.9	5.0	34	8.4	5.4	34	11.7	5.6	34	9.0	4.1
CHUNYI	13	9.8	6.1	13	5.8	5.0	13	10.3	5.7	13	12.6	5.1	13	9.2	4.9
MUO MUJI KENDA	27	9.7	7.4	26	6.7	4.1	27	9.7	5.3	27	13.0	5.1	27	9.5	5.3
DIGO	100	12.1	6.8	98	9.4	4.5	99	11.2	5.2	99	14.3	5.0	100	11.4	3.9
TALIA	45	10.2	5.6	45	6.1	5.5	45	8.3	5.4	45	11.1	5.6	44	9.2	5.0
TAVETA	47	10.5	6.3	48	7.6	4.5	48	9.2	5.3	48	11.0	5.2	47	9.8	4.3

Table AP. 1.4.5 : Distribution of ulnar ridge counts in Kenyan minimal ethnic population samples (right hand males).

POPULATION	FINGER DME			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	219	7.5	8.1	218	5.2	6.8	221	3.0	6.2	220	6.4	7.1	220	1.9	3.9
RENDILLE	153	6.9	7.4	152	5.3	6.1	152	2.4	4.6	151	5.2	6.2	150	1.1	3.1
GABBARA	27	6.3	7.7	27	4.9	6.5	27	1.6	3.8	26	4.0	5.7	27	1.2	3.1
BORAN	127	6.9	8.0	126	4.9	7.0	126	2.3	5.4	126	5.2	6.4	125	1.4	3.4
HURJI	64	8.0	8.5	64	5.0	7.4	64	3.5	6.2	64	6.7	7.2	64	2.4	4.4
SAMBURU	85	9.8	6.8	84	4.1	6.1	86	2.0	4.8	85	3.9	5.7	85	1.7	3.5
KADJIADQ MAASAI	63	5.9	7.8	63	3.8	6.1	63	2.3	5.2	63	6.2	7.0	63	1.6	3.6
NAROK MAASAI	35	4.8	7.0	36	4.8	7.4	36	2.7	5.6	36	4.5	5.9	36	0.8	2.3
NGWESI	41	5.6	7.1	41	5.8	6.3	41	2.5	4.7	41	4.7	6.1	41	1.1	2.9
MUKOGODO	38	7.7	8.5	38	7.6	7.1	38	2.9	6.0	38	7.3	7.0	38	1.7	3.9
KONY	36	2.4	5.6	37	2.9	5.3	37	0.9	3.5	37	3.2	4.9	37	1.0	2.5
MANDI	52	4.8	6.8	52	3.9	5.6	52	2.3	4.4	52	4.2	5.8	51	1.4	3.2
KIPSIGIS	54	5.0	7.2	54	5.0	6.6	55	2.8	5.7	53	5.9	6.8	55	1.7	3.5
TUGEN	105	5.0	7.4	106	4.2	5.9	106	2.2	5.3	107	4.6	6.6	107	1.2	3.3
KEYO	50	3.6	6.6	49	4.7	6.5	50	1.3	4.5	50	5.0	6.1	50	1.0	2.6
MARAKWET	50	4.4	6.1	50	4.5	5.8	50	1.7	3.9	50	6.0	6.8	50	1.3	3.5
POKOT	45	3.0	5.6	45	4.6	6.4	45	1.5	3.8	45	4.3	5.8	45	1.3	3.7
IFESO	52	5.5	7.8	52	3.2	5.0	52	1.7	3.9	52	3.1	4.9	52	0.6	2.2
TURKANA	64	7.5	7.5	65	4.7	5.9	65	2.6	5.1	65	6.6	6.2	64	1.6	3.1
LUO	168	6.1	7.6	168	3.8	6.2	169	2.2	4.9	166	4.3	5.8	167	1.2	3.2
GUSTI	50	6.1	7.7	49	4.7	6.3	49	1.8	4.1	49	4.0	5.8	49	1.2	3.0
TIRIKI	26	6.6	7.6	26	5.3	6.1	26	2.8	6.0	26	4.1	6.0	26	1.0	2.8
MARAGOLI	26	5.2	7.4	26	4.3	6.6	26	1.8	5.0	26	4.6	6.7	26	0.6	1.7
BUNDRE	30	6.3	7.7	30	6.7	6.6	30	2.9	5.1	29	5.9	6.3	30	0.7	2.4
IOAKHO	39	3.8	7.1	39	3.7	6.4	39	2.0	4.9	39	3.7	6.3	39	0.6	2.3
MARARA	25	6.9	7.2	25	7.8	6.6	25	4.0	6.2	25	7.1	6.0	25	1.3	2.9
WANGA	25	4.2	6.5	25	5.8	6.7	25	0.1	0.4	25	4.0	5.4	25	0.2	0.9
MARACH	22	4.9	7.4	22	3.6	5.3	22	0.5	2.3	22	2.4	4.6	22	0.6	1.5
BUKHAYO	22	4.9	7.4	22	3.6	5.3	22	0.5	2.3	22	2.4	4.6	22	0.6	1.5
SANIA	24	7.8	7.7	24	5.5	7.0	24	1.3	3.1	24	3.4	4.6	24	1.3	3.4
BUTSOTO	20	6.4	7.6	20	4.3	6.9	20	2.3	5.1	20	5.5	6.5	20	1.1	4.0
BUNYALA	25	9.5	9.6	25	5.0	6.8	25	1.8	4.5	25	4.2	6.1	25	1.0	2.1
KABRAS	26	9.5	7.4	25	7.3	6.9	25	2.8	5.8	26	5.4	6.8	26	1.1	2.9
BUKUSU	57	5.1	7.1	60	3.1	5.1	61	1.8	4.1	61	3.9	4.9	61	1.0	2.6
XIANBU KIKUYU	64	5.2	7.4	64	4.8	6.9	63	2.6	5.6	64	5.8	6.4	64	1.0	3.0
MURANGA KIKUYU	55	7.5	8.0	54	3.8	5.9	55	2.5	5.4	54	5.7	7.0	55	1.1	3.3
NYERI KIKUYU	49	6.2	7.3	48	4.9	6.1	48	2.3	4.7	49	4.3	5.9	49	1.0	2.9
NOIA	56	5.4	7.1	56	3.7	5.7	56	1.0	3.2	56	3.0	5.2	56	0.5	1.9
KANBA	73	6.1	7.9	75	4.6	6.0	74	2.0	4.7	75	3.7	5.3	74	1.2	3.2
EMBU	66	6.3	7.3	67	4.1	6.0	67	1.7	4.9	67	2.7	5.0	67	0.6	2.1
MBERE	62	7.5	7.9	62	4.1	6.3	63	2.1	4.8	62	5.5	6.2	63	1.0	2.9
CHUKA	72	5.9	6.8	73	4.4	6.0	73	2.1	4.6	73	4.4	6.1	74	0.6	2.3
MUTHAMBI	76	6.9	7.5	76	4.7	5.8	76	1.4	3.8	76	3.5	5.4	76	1.7	3.8
MWIMBI	59	4.4	6.9	60	3.2	5.2	60	1.4	4.0	59	2.2	4.6	60	0.7	2.7
IGODJI	77	7.0	7.8	78	4.5	7.0	78	2.1	5.4	77	4.2	6.4	78	1.1	3.7
IMENTI	61	6.4	7.3	61	3.7	5.4	60	1.2	3.6	60	4.2	5.6	60	1.3	2.9
TIGANIA	64	6.2	7.9	64	4.2	5.8	64	1.2	3.9	64	4.0	5.6	64	0.5	1.5
IGEMBE	63	6.1	7.6	64	3.8	5.7	64	1.2	3.5	64	4.8	5.7	64	1.1	2.9
THARAKA	54	7.2	7.5	54	5.0	6.5	54	2.2	4.9	54	4.6	6.6	54	1.5	3.2
POKOMO	92	5.3	7.3	92	4.6	6.3	93	2.0	4.9	93	4.7	6.5	93	1.5	3.6
MALAKOTE	40	5.2	7.1	39	4.5	6.7	39	2.4	4.9	39	5.2	6.3	40	2.1	3.9
GIQIAMA	49	9.3	9.0	49	5.3	7.2	49	3.1	5.5	49	4.2	6.0	49	0.2	1.2
CHONYI	79	7.9	8.5	79	4.9	6.6	79	1.0	3.6	79	4.5	5.6	79	0.9	2.9
MED MJI KENDA	32	6.7	7.7	32	5.7	6.9	32	3.0	5.4	32	4.4	5.9	32	0.7	2.1
DIGO	115	8.3	8.0	116	5.7	6.7	116	3.4	5.4	116	5.5	6.6	116	1.3	3.2
TAITA	55	4.6	7.2	55	3.1	5.3	55	1.3	3.8	55	3.2	5.5	55	0.2	1.1
TAUETA	57	6.4	8.3	57	3.9	5.5	58	1.3	4.1	58	2.9	4.9	58	0.7	2.5

Table AP. 1.4.6 : Distribution of ulnar ridge counts in Kenyan minimal ethnic population samples (left hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	218	6.0	7.0	221	5.0	6.7	221	3.0	6.2	222	5.7	6.9	219	1.8	3.9
RENDILLE	182	7.0	7.7	150	5.7	6.5	149	2.7	5.1	149	4.7	6.3	151	1.3	3.6
GABRA	27	3.0	6.1	27	4.6	5.8	27	3.9	6.5	27	3.1	5.2	27	0.7	2.7
BDHAN	126	5.2	7.7	127	5.5	7.2	127	3.1	5.9	126	4.4	6.5	126	1.5	3.7
BURJI	64	7.7	8.0	64	5.4	6.6	64	6.4	8.3	63	7.0	6.9	64	2.8	5.0
SAMBURU	85	4.8	6.6	84	4.9	6.1	85	2.2	5.1	85	4.4	5.9	86	2.1	4.3
KAUJIADO MAASAI	63	4.9	7.3	63	3.9	6.2	63	2.5	5.5	63	5.6	7.2	63	2.0	4.3
NAROK MAASAI	36	4.1	7.4	36	5.0	7.9	36	2.9	6.2	36	3.8	6.0	36	0.4	1.6
NGWESI	39	5.9	7.0	40	5.8	7.4	40	4.0	7.8	40	5.7	6.8	40	1.2	3.2
MUKOGODD	39	7.4	8.8	38	6.2	7.1	38	4.0	6.8	38	5.8	7.5	38	3.0	5.1
KINY	37	2.6	5.4	37	2.8	4.9	37	1.2	3.6	37	3.2	4.9	37	1.3	3.4
NANDI	52	3.2	6.8	51	4.9	6.4	52	2.8	5.4	52	5.0	5.9	52	1.1	3.2
KIPSIGI'S	55	5.1	7.4	55	5.5	6.7	55	4.2	6.7	55	6.5	7.1	55	1.7	3.9
TUGEN	104	4.2	6.8	104	4.6	6.8	106	2.9	6.0	106	4.2	6.2	107	1.2	3.1
KEYO	50	3.5	6.5	50	5.3	6.9	49	2.4	5.0	50	4.8	6.3	50	1.2	3.2
MARAKWET	50	3.4	6.0	50	3.9	5.8	50	3.2	5.4	50	4.8	6.2	50	1.4	3.4
PUNDI	45	2.2	5.2	44	4.5	6.6	45	1.6	4.9	44	3.2	5.1	45	0.6	2.3
IFESU	52	4.4	7.6	52	2.1	4.1	52	1.7	4.1	52	3.1	5.0	52	1.4	3.2
TURKANA	64	6.5	7.7	64	4.1	5.9	65	2.4	5.0	65	5.3	6.4	65	1.9	4.4
LUU	169	6.0	7.2	169	5.3	6.8	169	3.1	5.9	169	3.9	5.7	169	1.2	3.2
GUSII	50	4.6	7.7	50	5.1	6.6	50	1.9	4.6	49	5.4	6.6	50	0.8	2.6
TIHIKI	26	8.3	7.8	26	4.3	7.4	26	3.1	6.0	26	3.3	5.7	26	1.1	4.0
MARAGOLI	26	8.7	7.5	26	5.1	7.1	26	2.8	5.8	26	4.2	6.4	26	0.5	1.6
BUNDYRE	30	5.6	7.6	28	5.6	6.9	30	2.2	5.0	30	3.7	5.8	30	0.7	2.9
IDAKHO	39	3.3	6.9	39	3.6	5.8	39	2.3	5.1	39	4.0	6.7	39	0.5	2.2
MARAMA	24	4.2	6.7	25	6.8	7.6	25	3.5	6.1	25	6.4	6.1	25	1.8	4.2
WANGA	25	4.1	6.3	24	4.8	7.2	25	1.0	3.3	25	2.5	4.5	25	0.9	3.1
MAKACH	24	2.9	6.5	24	6.4	7.3	25	3.7	5.9	25	4.8	6.9	25	1.2	2.7
BUKHAYO	23	3.6	6.0	23	4.0	6.4	23	0.8	3.1	21	3.8	5.9	23	1.7	3.8
SANIA	24	5.4	7.2	24	5.5	7.3	24	0.7	2.5	24	1.7	4.5	24	0.6	1.7
BUTSOTSO	20	2.4	4.9	20	2.9	5.9	20	2.2	5.5	20	7.0	8.0	20	0.4	1.6
HUNYALA	25	9.4	9.6	25	4.0	5.8	25	2.6	5.7	25	3.3	6.6	25	1.4	3.4
KARNAS	26	7.1	7.2	26	4.6	5.8	26	2.4	5.1	25	3.7	6.2	26	0.6	2.2
BUKUSU	59	3.6	6.2	61	4.5	6.3	61	1.9	4.8	60	4.1	6.0	61	0.8	2.7
KIAMBU KIKUYU	63	4.8	7.4	64	4.9	6.4	64	2.5	5.2	64	5.0	6.6	63	1.3	3.4
MURANGA KIKUYU	56	7.4	8.0	56	5.7	6.8	56	2.1	4.8	56	6.4	7.6	56	1.6	3.8
NVERI KIKUYU	49	5.1	7.5	49	5.1	6.2	49	3.0	5.7	48	4.6	5.9	49	1.0	3.0
NDIA	56	4.7	7.1	55	5.2	6.1	55	2.2	4.2	55	4.1	6.2	56	0.7	2.1
KANBA	74	6.2	7.6	75	4.5	6.5	74	3.3	6.3	74	4.1	6.0	73	1.7	3.8
EMBU	85	5.8	7.6	87	4.1	6.1	87	2.2	5.2	87	3.1	5.4	87	0.6	2.2
WHERI	63	6.0	7.6	63	4.6	6.8	63	3.4	6.0	63	5.3	6.3	63	1.5	4.1
CHUKA	74	6.2	6.9	74	4.1	6.2	74	2.9	5.7	73	4.0	5.7	74	0.8	2.9
MUTHANBI	75	6.3	7.6	75	4.2	6.0	75	2.5	5.6	74	3.0	5.2	75	1.2	3.1
MWINBI	61	5.4	7.3	61	4.1	6.0	61	2.2	5.0	60	2.7	5.0	61	0.7	2.3
IGIRI	76	5.7	7.5	77	4.8	6.7	77	2.8	5.4	77	4.8	6.8	77	1.0	3.2
IAENTII	61	5.8	7.0	61	4.6	5.7	61	2.0	4.4	60	4.5	5.9	61	1.3	3.5
ITIGAMIA	64	4.5	6.8	64	4.3	6.3	64	1.0	3.6	64	3.7	5.6	64	1.1	3.3
IGEMBE	64	5.1	7.6	64	3.2	5.4	65	2.7	5.9	65	5.0	6.5	64	0.7	2.2
THAMAKA	54	6.9	7.2	53	5.1	6.7	54	2.6	5.5	52	4.6	7.1	54	1.4	3.4
PDKOMO	92	5.3	7.2	92	6.0	7.2	93	2.7	5.8	93	4.0	6.4	92	1.3	3.7
MALAKOTIE	41	4.4	6.8	41	3.0	5.8	41	2.1	5.2	41	2.9	5.7	41	1.0	2.6
GIRIANA	48	9.0	8.0	48	5.5	7.0	49	1.5	4.2	49	3.9	6.4	49	0.6	2.1
CHONYI	78	6.9	6.4	78	4.0	6.6	79	1.6	4.4	77	4.3	6.2	78	1.0	3.1
MID WJI KENYA	32	7.3	7.7	32	6.5	7.7	32	3.3	5.8	32	4.6	6.1	32	1.4	3.4
DIGO	114	7.0	6.2	114	5.1	7.0	114	3.7	6.6	113	4.9	6.3	116	1.0	3.2
TAITA	55	5.4	7.8	54	2.7	5.3	55	1.8	4.6	55	3.1	5.9	55	0.5	2.3
TAVETA	54	5.6	7.7	56	3.6	5.8	56	1.8	4.6	58	2.9	5.3	56	0.5	1.9

Table AP. 1.4.7 : Distribution of ulnar ridge counts in Kenyan minimal ethnic population samples (right hand females).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	6.2	7.1	103	4.4	6.9	103	1.9	5.1	103	4.5	6.4	103	1.4	3.0
RENDILLE	45	7.2	7.5	44	3.6	6.1	43	1.8	4.7	44	4.8	5.5	44	0.7	2.0
GABRA	63	4.9	6.3	61	4.4	6.2	61	2.0	4.6	62	5.1	6.1	62	1.5	3.5
BARNA	57	1.9	6.0	56	4.6	6.4	56	1.9	4.6	55	2.7	5.3	57	0.4	1.6
BURJI	55	5.3	6.8	56	3.8	6.3	55	1.6	4.2	56	4.5	6.3	56	1.0	2.6
SAMURU	43	5.2	7.1	44	3.8	6.2	44	1.7	4.2	44	4.7	6.5	44	0.8	2.4
KADJANG MAASAI	150	4.9	6.7	150	4.7	6.7	150	1.5	4.3	150	3.9	6.0	150	1.1	3.1
KONY	23	2.8	5.5	23	1.3	3.8	23	0.7	3.0	23	2.7	4.5	23	0.2	0.7
NANDI	50	4.2	6.5	50	3.9	6.0	50	1.0	3.3	50	3.9	5.7	50	0.6	2.2
KIPSIGIS	43	5.1	7.9	43	4.2	6.6	43	1.7	4.7	43	3.6	6.0	43	0.7	2.5
TUGEN	102	6.2	6.0	101	2.7	5.2	101	1.2	3.5	100	3.2	5.3	102	0.6	2.3
KEVO	50	3.0	5.6	50	2.5	5.2	50	0.7	3.6	50	3.4	5.7	50	0.3	1.4
MAKAKWEI	56	3.3	5.8	56	2.0	4.7	56	0.8	2.7	56	3.6	5.4	56	0.6	2.0
POKOT	53	2.9	5.6	53	3.4	5.4	53	1.8	4.6	52	4.0	5.9	53	0.9	2.6
ITESO	47	5.6	7.0	47	4.6	5.9	46	1.9	4.4	47	3.7	5.4	47	0.7	2.4
TURKANA	42	5.2	7.4	42	4.3	7.1	42	2.8	6.6	42	6.9	6.9	43	1.1	3.5
LUO	107	4.1	7.1	107	4.8	6.9	107	2.4	5.5	106	4.9	6.9	107	1.2	3.1
GUSII	51	6.3	7.7	51	5.0	6.8	51	2.3	5.4	51	3.3	6.1	51	1.0	2.8
TIRIKI	25	6.2	7.0	25	5.9	6.4	25	0.9	2.7	25	3.3	5.7	25	0.6	2.3
MAKAGOLI	24	5.2	7.3	24	2.9	5.3	24	2.3	5.3	24	3.2	4.8	24	0.0	0.2
BUNYORE	20	7.4	7.3	20	2.8	5.4	20	1.3	4.2	20	2.5	5.7	20	0.0	0.2
LOKHO	15	4.9	6.9	15	2.4	4.5	15	1.3	5.2	15	2.5	4.1	15	0.0	0.0
MARAMA	25	6.6	7.9	25	5.0	6.8	25	2.3	5.4	25	4.0	6.2	25	1.2	3.4
WANGA	24	5.1	7.5	23	3.3	5.4	24	1.3	3.1	24	2.2	4.9	24	0.0	0.0
MAKACH	24	3.9	6.8	24	5.1	7.9	24	0.8	2.7	24	3.3	5.8	24	0.3	1.6
BUKHAID	26	3.4	6.2	26	3.2	6.0	26	1.4	4.2	26	2.7	5.0	26	0.9	3.1
SAMIA	24	3.6	6.5	26	6.1	7.6	26	2.5	6.0	26	5.1	6.3	26	1.6	3.5
BUTSOTEN	27	3.8	6.9	27	3.2	5.8	27	0.9	3.2	27	2.3	5.3	27	1.2	1.2
BUNTALA	25	6.5	9.6	25	3.7	6.0	25	2.6	5.7	25	3.0	5.9	25	1.0	2.8
KARRAS	26	5.6	7.5	26	3.1	4.6	26	0.7	2.7	26	1.2	3.4	26	0.2	1.2
BURUSU	25	2.1	5.0	24	2.0	4.1	27	0.4	1.8	27	2.3	4.1	27	1.3	3.1
KIAMBU KIKUYU	38	4.7	7.7	38	4.4	6.3	38	1.4	3.8	38	4.1	6.0	37	0.9	2.8
MURANGA KIKUYU	45	5.3	7.9	45	2.8	5.3	45	1.2	3.4	45	2.7	5.0	45	0.5	1.6
NYERI KIKUYU	50	3.2	5.6	51	4.0	5.9	51	1.5	3.8	51	1.6	3.7	51	0.3	1.7
NOTA	66	6.0	7.3	66	3.5	6.3	66	1.3	4.5	66	3.1	5.2	66	1.1	3.0
KAMBA	41	6.0	7.5	42	5.1	6.9	42	1.6	4.1	42	3.7	5.9	42	0.1	0.6
EMBU	72	6.2	6.9	72	4.1	5.9	72	0.7	3.0	72	2.6	4.9	72	0.4	1.9
MBERE	66	3.5	5.6	65	2.6	4.9	65	0.3	1.8	64	1.3	3.1	66	0.4	1.3
CHUKA	60	5.9	7.2	59	3.6	5.2	59	1.3	3.8	58	3.0	5.5	59	0.8	2.6
MUTHAMBI	80	5.3	6.4	80	3.5	5.2	80	0.9	3.3	79	3.3	5.0	79	0.8	2.4
MUTHAMBI	43	6.4	7.8	42	4.2	6.2	43	0.8	2.8	43	2.6	4.9	43	0.7	2.7
IGQJI	92	5.1	6.8	95	3.4	5.5	95	1.4	3.7	92	3.4	5.2	94	0.5	2.1
IMENTI	39	4.9	6.3	39	3.7	5.5	39	1.3	3.8	38	2.5	4.7	39	0.2	0.9
TICANIA	36	3.7	6.2	36	2.6	4.8	36	0.7	2.5	36	2.0	4.6	36	0.1	0.5
IGEMBE	32	2.9	5.2	33	3.0	5.6	33	0.0	0.0	33	3.1	4.6	33	0.0	0.2
THARAKA	46	7.1	8.0	46	4.0	6.2	46	1.7	4.4	46	2.9	4.9	46	0.4	1.9
POKOT	90	5.3	7.0	90	3.8	6.2	90	1.5	4.3	90	4.0	5.8	90	0.5	1.9
GIRIANA	34	5.9	7.8	34	4.6	6.1	34	1.3	4.3	34	2.5	4.7	33	0.7	1.9
CHONYI	13	2.8	4.2	13	3.0	5.7	13	3.2	5.1	13	3.6	5.5	13	0.4	1.4
MID MJI KENYA	27	5.5	7.5	27	5.2	6.3	27	0.7	2.3	27	2.6	4.7	27	0.4	2.1
DIGO	100	9.5	7.9	100	7.6	7.5	100	3.8	6.3	100	5.9	6.2	100	1.1	3.1
TALTA	45	5.1	6.9	45	2.9	6.1	45	1.4	4.2	45	2.6	5.6	45	0.9	2.9
TAVETA	46	5.2	6.1	48	4.6	6.5	48	1.5	3.7	48	3.9	5.3	47	0.8	2.4

Table AP. 1.4.8 : Distribution of ulnar ridge counts in Kenyan minimal ethnic population samples (left hand females).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	6.9	7.1	103	4.0	6.2	103	2.6	5.7	102	3.8	5.7	102	1.3	3.2
WENDILLE	46	0.9	7.7	46	5.5	6.7	46	3.5	5.4	46	6.1	6.7	46	1.1	3.1
GARHNA	63	5.0	6.5	62	5.6	6.6	63	3.3	6.4	62	5.2	6.3	62	1.7	3.7
BIDJAN	58	1.9	6.7	58	5.7	7.1	58	2.8	5.8	58	2.9	4.5	58	0.6	1.0
BUNJI	55	7.1	7.7	56	4.8	6.2	56	2.9	5.8	56	4.9	6.5	56	1.7	3.8
SAMBURU	46	4.9	7.1	44	4.5	6.4	44	3.0	5.9	45	5.3	6.9	45	1.4	3.7
KADJILADO MAASAI	150	5.0	7.0	149	5.9	7.4	150	3.1	5.9	149	3.8	5.9	150	1.6	3.9
KUMY	23	1.2	4.1	23	2.1	4.8	23	0.9	3.3	23	4.3	5.8	23	0.3	1.7
MANDI	50	4.1	6.2	50	4.9	6.4	50	3.3	6.6	50	5.2	6.9	50	1.1	3.2
KIPSTIGIS	43	1.9	5.6	43	4.7	7.2	43	3.0	6.4	43	3.8	6.0	43	0.8	2.7
TUGEN	101	4.1	6.0	100	3.4	5.9	99	1.6	3.9	100	4.1	5.9	101	1.2	3.2
KEYO	50	4.1	6.6	50	3.5	5.4	50	2.3	5.1	50	4.1	5.9	50	0.9	2.9
MARAKWET	56	2.6	5.1	56	3.0	5.3	56	1.9	4.3	56	4.7	5.9	56	1.9	3.6
WUKOT	51	2.6	4.9	52	4.8	6.3	52	2.9	5.3	52	5.5	6.9	51	1.1	3.0
ITESD	47	4.8	7.4	47	5.6	6.3	47	2.4	5.1	47	4.9	6.0	47	1.0	3.2
TURKANA	42	5.1	7.0	43	4.6	6.6	43	3.3	7.0	43	4.4	7.0	43	1.6	3.9
LUD	107	5.4	7.4	107	5.7	7.3	107	3.2	6.4	107	4.4	6.6	107	1.3	3.6
GUSII	51	6.5	8.0	51	5.3	6.9	51	2.6	5.6	51	5.5	7.3	51	1.3	3.4
TIRIKI	25	6.3	7.2	25	5.3	6.8	25	3.3	5.8	25	3.3	5.9	25	0.9	3.3
MARAGOLI	24	7.0	8.0	24	4.7	6.5	24	1.9	4.5	24	3.5	5.3	24	0.5	2.0
BUNYORE	20	6.3	7.0	19	2.9	6.7	20	0.0	0.0	20	0.3	1.3	20	0.0	0.2
IOAKHO	15	5.6	7.9	15	3.1	6.0	15	1.7	5.1	15	3.6	5.9	15	0.6	2.3
MARAWA	25	5.7	6.8	25	5.6	7.0	25	4.1	6.4	25	4.2	6.7	25	2.7	4.9
WANGA	24	5.5	6.8	24	4.8	7.5	24	1.5	3.4	24	3.5	6.5	24	0.5	2.0
MARACH	24	4.7	7.1	24	5.8	7.5	24	2.0	4.9	24	4.4	6.2	24	0.8	2.3
BUKHAYO	26	4.5	7.1	26	3.5	6.1	26	1.7	4.9	26	3.7	5.9	26	1.2	3.1
SANIA	26	3.5	6.0	26	7.5	8.7	26	3.3	6.4	26	4.1	6.0	26	2.0	3.5
HUFESOTO	27	4.1	6.9	27	5.0	6.3	26	3.6	6.9	27	4.4	6.4	27	0.9	2.7
BUNYALA	25	6.5	8.4	24	4.1	6.8	25	2.2	6.2	25	3.4	6.5	25	0.6	1.7
KABRAS	26	3.6	6.0	26	3.1	5.7	26	1.9	5.2	26	2.0	4.3	26	0.3	1.2
BUKUSU	25	3.2	5.5	27	3.4	5.7	27	2.0	4.2	27	1.6	4.2	26	0.6	2.3
KIAMBU KIKUYU	37	4.8	7.3	38	6.7	8.0	38	3.1	6.7	38	3.8	6.4	38	1.5	3.6
MURANGA KIKUYU	45	5.5	7.6	45	4.3	6.9	45	1.1	3.2	45	3.3	5.2	45	0.8	2.7
NYERI KIKUYU	51	3.8	6.2	51	5.2	6.8	51	2.0	4.4	51	3.8	5.3	51	0.8	2.4
NDIA	66	5.0	6.8	65	4.6	7.1	64	2.4	5.4	65	4.5	6.0	66	1.4	3.8
KAMBA	42	6.2	7.8	42	5.2	7.1	42	2.5	4.8	42	4.1	6.1	42	1.0	2.9
EMBU	72	7.1	7.7	72	4.8	6.6	72	1.6	4.7	72	4.3	5.7	72	1.0	3.1
MDEYE	64	4.8	7.2	63	4.1	6.1	64	1.2	3.8	64	2.8	5.0	64	0.5	1.9
CHUKA	59	7.8	7.6	60	6.4	6.9	61	3.0	6.3	59	4.6	6.7	59	1.4	3.6
MUTHAMBI	79	4.9	6.6	76	4.8	6.0	80	2.6	5.1	80	3.8	5.5	80	1.2	3.1
MUTHI	43	6.2	8.1	42	5.5	6.9	43	1.2	4.2	43	3.7	6.3	43	1.3	3.6
IGODJI	94	6.4	7.3	94	4.4	6.3	95	2.5	5.5	95	4.1	6.1	92	1.4	3.8
IMENETI	39	5.6	7.2	39	4.7	5.9	39	1.9	4.3	39	4.2	5.7	39	1.1	3.3
YIGANIA	36	4.3	6.5	36	3.6	6.3	36	2.2	4.9	36	3.9	6.0	36	1.2	3.5
IGEMBE	33	3.7	6.0	33	4.0	6.4	33	1.0	3.7	33	4.1	6.0	33	1.8	3.6
THARAKA	46	9.2	8.4	46	4.1	6.0	46	2.2	4.7	46	3.9	5.4	46	1.0	2.9
POKOND	49	6.1	7.7	49	4.6	6.5	50	2.6	5.5	50	3.7	6.0	50	0.9	2.7
GERTAMA	34	7.2	7.7	34	6.3	6.7	34	2.0	4.7	34	2.8	5.5	34	0.5	2.2
CHONYI	13	3.3	5.2	13	6.2	7.4	13	3.2	6.1	13	1.8	4.5	13	0.7	2.5
MID NJI KENIA	27	6.0	7.9	27	3.1	6.5	27	1.4	3.7	27	4.7	5.9	27	1.0	2.9
DIGO	99	9.9	7.9	99	8.1	7.4	100	4.8	6.6	99	5.9	6.6	100	1.2	3.4
YAITA	45	6.8	7.4	45	5.4	7.2	45	1.5	4.1	45	4.0	6.3	45	1.2	3.6
YAVETA	47	6.8	7.5	48	5.6	6.8	48	3.2	5.5	48	3.5	5.5	47	0.9	2.3

Table AP. 1.4.9 : Distribution of unilateral ridge counts in Kenyan minimal ethnic population samples (right hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	218	16.4	6.0	216	11.6	5.3	219	11.3	4.9	219	14.2	9.7	219	12.4	4.6
RENDILLE	151	16.2	5.1	150	12.0	4.9	151	11.4	4.8	150	13.9	4.6	147	12.2	3.8
GABRA	27	16.5	5.6	27	11.3	4.8	27	10.0	3.9	26	14.6	8.0	27	12.9	3.5
BORAN	127	16.1	6.5	126	10.8	6.0	126	11.0	5.3	125	14.3	9.5	125	12.7	4.4
HURJI	63	17.6	6.5	64	11.4	6.0	64	11.6	4.9	64	13.8	5.1	64	12.5	4.3
SABURU	45	15.4	5.6	64	11.5	4.9	64	10.3	4.9	84	13.2	5.1	65	11.7	4.1
KADJADO MAASAI	63	15.2	6.6	63	11.0	6.0	63	11.2	4.9	63	13.5	5.5	63	11.4	5.3
NAROK MAASAI	35	13.9	6.9	36	11.3	5.9	35	9.3	5.3	36	12.2	6.0	36	11.2	4.3
NGESI	41	16.6	5.8	41	12.3	4.9	40	12.7	4.0	41	14.6	5.3	41	12.4	4.4
MUKOGODD	38	18.0	5.6	38	12.7	6.0	38	12.1	4.6	38	14.1	5.9	38	12.4	5.4
KONY	36	10.6	6.2	37	7.6	4.9	37	8.2	4.5	37	10.8	6.2	37	8.9	4.8
NANDI	52	14.6	5.2	52	10.9	4.6	52	11.1	3.7	52	12.4	4.7	51	11.5	3.7
KIPSIGIS	54	15.6	6.4	54	11.7	5.1	55	12.4	4.3	53	13.9	5.1	55	12.6	4.1
TUGEN	105	15.0	5.7	106	9.6	5.2	104	10.4	4.9	107	13.2	5.1	107	11.7	4.5
KEYO	50	14.4	5.3	48	10.6	4.3	49	11.4	4.2	49	13.5	4.8	50	11.2	4.2
MARAKWET	50	15.5	5.1	50	10.4	5.0	50	11.4	4.2	50	13.7	4.6	50	11.9	4.4
POKOT	45	13.2	6.2	45	10.9	4.4	45	10.0	4.3	44	12.9	4.4	45	10.3	4.3
ITESO	52	13.6	6.8	53	9.1	5.3	51	10.2	4.9	52	12.3	5.3	52	10.7	4.3
TURKANA	62	14.8	5.9	65	10.4	5.6	65	10.3	5.1	65	13.3	5.9	62	11.5	5.1
LUO	168	15.0	5.6	168	10.7	5.1	167	10.6	4.6	168	13.6	5.1	167	11.7	4.5
GUSII	50	15.9	6.8	48	11.0	5.3	49	10.5	4.9	49	13.6	5.7	48	12.4	4.4
TIRIKI	26	13.0	7.7	26	9.2	6.0	26	10.5	5.7	26	13.3	5.4	26	12.2	4.2
MARAGOLI	26	13.0	6.6	26	9.5	5.4	26	10.2	4.8	26	12.5	5.2	26	11.2	4.5
BUNYORE	30	15.6	5.1	30	12.0	3.8	30	12.0	3.5	29	16.2	4.5	30	13.0	3.6
LOKHO	39	14.1	6.9	39	11.9	5.8	39	11.7	4.9	39	13.3	9.5	39	11.7	3.6
MARANA	25	15.4	6.7	25	12.5	3.6	25	12.4	3.9	25	15.6	5.1	25	13.4	4.5
WANGA	25	16.9	6.4	25	10.6	5.6	25	10.5	4.7	25	14.4	4.4	25	11.6	4.2
BUKRAYU	25	15.7	7.1	25	11.4	5.7	25	11.6	5.3	25	14.0	5.9	25	11.6	5.0
SANIA	24	14.3	5.6	24	9.8	5.2	22	10.4	4.3	22	12.5	5.5	22	10.7	4.0
RUTSISO	20	16.0	4.6	20	12.4	4.1	20	12.3	5.3	24	15.1	6.7	24	13.2	5.8
BUNYALA	25	16.1	6.7	25	10.6	6.0	25	12.3	4.1	20	16.3	4.3	20	13.1	3.3
KABRAS	26	15.3	5.7	25	12.6	4.1	24	12.1	4.6	25	14.5	4.6	25	11.0	3.4
BUKUSU	57	13.8	5.9	60	8.9	4.7	60	9.2	4.9	58	11.2	4.8	58	9.8	4.7
KIAMBU KIKUYU	64	17.1	7.1	64	11.8	5.5	63	11.7	5.0	64	14.0	5.5	64	11.9	5.2
MURANGA KIKUYU	55	16.4	6.5	54	10.3	5.4	55	11.1	5.1	54	13.8	6.2	55	11.7	4.9
NYERI KIKUYU	49	14.1	7.2	48	10.1	5.4	48	9.1	5.7	49	11.9	6.0	49	10.6	4.4
NDIA	55	14.7	6.1	56	10.1	5.1	56	10.4	3.9	56	13.3	5.4	56	11.3	4.8
KAMBA	73	15.5	6.2	73	10.7	5.2	74	10.8	4.5	74	13.5	5.4	71	11.4	3.8
EMBU	86	15.6	7.1	86	9.7	4.7	87	10.1	5.3	85	12.9	5.5	87	11.0	4.4
MBERE	62	15.0	6.6	61	10.5	5.7	63	11.4	4.9	62	14.0	4.9	63	11.8	4.5
CHUKA	72	15.7	5.4	71	8.7	5.3	72	9.9	4.9	73	10.9	4.6	73	10.9	4.2
MUTHAMBI	76	15.3	5.9	75	10.1	5.2	76	9.6	5.0	76	13.1	5.3	76	11.2	4.6
MWINBI	59	15.2	5.6	60	10.0	4.8	59	9.2	4.7	59	11.6	5.7	60	10.8	4.2
IGUJI	76	15.8	6.4	78	11.0	6.1	77	10.5	5.3	76	14.1	6.0	77	10.9	5.4
INIENTI	61	14.1	6.2	61	9.6	4.9	60	10.0	4.5	59	13.0	4.6	60	11.7	4.0
YIGANIA	64	14.7	6.4	64	9.5	4.7	64	9.7	4.7	64	12.5	5.5	64	10.7	4.5
IGEMBE	62	16.1	5.3	64	9.7	4.9	64	10.0	4.7	63	13.2	5.0	64	11.7	4.3
THARAKA	54	14.9	7.0	53	10.6	5.5	54	11.0	5.1	54	13.7	5.6	54	11.7	4.7
POKOMO	92	14.0	6.7	92	10.2	5.8	93	10.6	5.5	92	14.0	5.6	93	12.4	4.8
MALAKOTE	40	18.0	5.6	39	11.3	5.7	39	10.8	4.5	39	13.4	4.1	40	12.0	4.0
GIRIANA	49	14.7	7.5	48	9.9	5.9	49	10.2	4.8	49	14.7	4.7	49	11.7	3.7
CHUNYI	78	14.9	6.5	78	9.7	5.8	78	10.5	6.2	79	13.8	5.5	79	11.6	4.7
MID WJI KENDA	32	15.4	6.0	32	10.6	5.2	32	10.9	5.5	32	13.7	5.5	32	11.6	4.3
OILO	114	15.9	6.5	115	11.3	5.0	116	11.7	4.7	116	15.6	4.8	115	12.9	4.6
TAITA	54	14.4	7.2	55	9.5	5.3	55	9.8	5.0	54	12.4	5.2	53	10.3	4.2
TAVERA	57	13.9	6.9	56	8.5	5.3	56	9.5	5.2	58	11.7	5.9	58	11.0	5.2

Table AP. 1.4.11 : Distribution of unilateral ridge counts in Kenyan minimal ethnic population samples (right hand females).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	14.5	5.6	103	11.1	5.0	103	10.4	4.5	103	13.2	5.3	103	11.3	4.3
RENDILLE	45	16.2	5.0	44	12.2	4.6	42	11.5	4.8	44	13.7	5.1	43	12.2	3.7
GABARA	63	15.6	4.7	60	11.5	5.0	61	11.6	4.7	62	13.6	5.2	62	11.7	4.4
BURAN	56	14.5	6.1	56	10.7	5.6	56	9.7	5.0	56	12.1	5.1	57	11.2	4.7
BOHJI	45	13.7	6.1	54	8.9	5.7	55	9.4	5.0	56	12.1	5.0	55	11.2	5.1
SAMBURO	42	14.5	4.5	43	11.1	5.4	42	10.1	5.7	42	13.4	6.3	42	12.1	4.9
KADJIADO MAASAI	150	13.4	6.0	150	10.6	5.5	149	10.1	5.0	150	12.9	5.8	150	11.0	5.0
KONY	23	12.1	4.8	23	8.0	4.3	23	8.3	4.1	23	10.1	4.7	23	8.7	3.6
NANDI	50	12.0	6.2	50	9.7	4.8	50	9.9	4.8	49	13.5	5.3	50	11.1	5.0
KIPSIGIS	43	14.4	6.5	43	10.8	5.8	43	10.1	5.2	43	12.1	5.4	43	11.1	4.7
TUGEN	102	14.6	5.0	101	9.5	4.7	101	10.6	3.9	99	12.2	4.6	101	10.8	4.2
KEYO	50	12.3	6.5	50	9.2	4.9	50	9.3	4.8	50	12.0	4.9	50	9.8	4.9
MARAKWET	56	13.1	5.7	56	9.3	5.5	56	9.3	4.8	56	11.8	5.7	56	10.0	4.2
PORDI	53	13.3	5.3	53	10.0	4.0	53	10.0	4.9	52	11.7	5.2	53	10.1	4.6
ITESO	47	13.9	5.4	47	10.6	5.1	46	10.7	4.8	47	13.1	5.0	47	10.9	4.8
TURKANA	42	15.1	4.5	40	11.9	5.2	42	11.9	4.9	42	13.0	5.9	43	12.3	4.7
LUD	107	12.9	6.0	107	10.8	5.1	107	10.6	4.8	106	13.7	5.5	107	11.5	4.7
GUSII	51	15.2	5.5	50	10.4	5.8	51	10.4	5.3	50	13.5	5.9	51	11.2	5.1
TIRIKI	25	15.0	5.6	25	10.0	4.6	25	11.6	4.4	25	14.2	6.1	25	12.9	4.8
MARAGOLI	24	12.5	5.2	24	10.7	3.7	24	10.7	3.9	24	14.6	3.5	24	10.7	4.5
HUNYORE	20	13.3	4.9	20	8.8	4.9	20	8.8	3.8	20	13.3	6.2	20	11.2	4.0
IDARHO	15	12.1	5.9	15	8.0	5.0	15	9.2	4.9	15	12.0	5.1	15	11.1	4.3
MARANA	24	13.8	6.1	25	10.4	5.5	25	10.4	5.5	25	14.5	5.5	25	13.0	4.9
WANGA	24	13.6	7.4	23	8.6	4.9	24	10.0	5.1	24	12.2	5.6	24	9.5	4.1
MARACH	24	13.2	6.9	23	10.3	6.1	23	10.5	4.8	23	14.0	5.7	23	10.3	4.3
MURRAYO	26	13.0	6.5	26	9.3	5.0	26	9.5	4.2	26	13.5	5.0	25	11.1	3.8
SAMIA	26	14.2	5.3	26	12.5	4.5	26	12.1	4.7	26	14.3	5.4	26	13.3	4.6
BUTSOTSO	27	12.8	5.9	27	8.8	4.6	27	8.4	4.8	27	13.1	5.7	27	11.4	4.8
BUNYALA	24	15.1	7.4	25	9.8	4.7	25	9.5	5.0	25	13.4	5.4	25	11.8	4.0
KABRAS	26	13.1	6.4	26	9.7	5.0	26	9.8	5.0	26	13.1	5.2	26	11.3	4.1
BUKUSU	24	10.4	5.9	24	6.0	4.4	27	9.3	4.4	25	11.2	5.2	25	9.1	4.5
KIAMBU KIKUYU	38	14.2	7.0	38	9.9	5.1	38	10.4	5.3	38	12.7	6.9	37	10.7	5.9
MURANGA KIKUYU	45	13.9	6.7	45	9.3	5.2	45	9.4	5.6	45	11.7	6.0	45	9.1	5.1
NYERI KIKUYU	49	13.7	6.0	51	10.0	5.0	51	10.1	4.5	50	12.0	5.8	51	11.0	3.8
NDIA	64	13.6	6.2	66	10.4	5.8	65	10.5	4.9	66	12.4	5.3	66	11.4	4.7
KANJA	41	15.3	6.9	42	11.5	4.9	42	12.1	4.0	42	15.0	5.6	40	13.1	4.5
EMBU	72	14.6	6.2	72	10.0	5.3	72	10.0	5.0	72	12.7	4.8	72	10.3	4.2
MBERE	66	13.4	5.4	65	9.7	4.9	66	9.5	4.9	64	11.5	5.6	65	9.8	4.3
CHUKA	58	15.1	6.3	58	9.8	5.3	58	10.3	6.4	55	12.5	5.8	55	10.9	4.6
MUTHAMBI	78	13.7	5.8	78	9.4	4.6	80	9.9	4.1	78	12.0	4.4	76	9.8	4.2
MTIMARI	43	13.0	6.5	41	10.3	5.1	43	10.5	4.8	42	13.1	5.7	43	10.8	4.9
IGODI	91	13.5	6.7	94	9.8	5.6	93	10.4	5.5	92	13.1	5.6	94	10.6	5.1
IMENI	39	12.5	5.9	39	8.8	4.7	39	9.0	5.1	38	11.4	5.4	39	9.9	5.0
TIGANIA	36	14.2	6.1	36	9.6	5.2	36	10.0	5.1	36	11.8	6.2	36	9.6	5.3
IGEMBE	32	13.5	7.4	33	9.6	5.7	33	10.2	5.4	31	13.1	5.0	33	10.8	5.1
THARAKA	46	14.8	6.6	46	10.3	4.9	46	10.3	4.7	46	12.8	5.3	46	11.2	5.4
POKOMO	90	12.4	6.7	89	9.8	5.4	90	9.9	5.2	90	14.1	6.1	89	12.1	5.0
GIRIAMA	34	12.4	7.3	34	9.1	5.4	34	9.6	5.5	34	13.1	5.6	33	10.4	5.2
CHONYI	13	12.1	7.2	13	8.8	5.9	13	10.2	4.2	13	13.2	4.1	13	10.9	5.3
MID WJI KENYA	27	12.7	6.0	27	9.0	5.6	27	11.0	5.1	27	14.0	5.7	27	11.2	4.1
DIGO	99	15.3	6.3	100	12.3	5.4	99	12.1	4.7	100	15.6	5.0	99	12.3	4.2
TAIFA	45	12.9	6.1	45	9.2	6.2	45	10.6	5.0	45	12.7	5.9	45	10.5	4.5
TAUFA	46	12.0	6.1	46	10.4	4.9	46	9.9	5.1	46	12.1	5.2	47	10.3	4.1

Table AP. 1.4.12 : Distribution of unilateral ridge counts in Kenyan minimal ethnic population samples (left hand females).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	14.3	5.6	103	10.5	5.1	102	10.1	5.3	102	12.9	5.2	101	11.4	4.4
RENDILLE	46	15.0	5.6	46	10.5	5.0	45	10.7	5.0	45	13.6	4.4	45	11.7	4.1
GABRA	63	14.2	5.3	61	10.3	5.3	63	10.7	5.8	61	13.0	5.7	62	11.2	4.4
BARAN	57	12.3	6.8	57	9.2	5.9	58	9.1	5.9	58	12.2	5.5	58	11.1	4.3
HURJI	55	13.4	6.3	56	8.4	6.0	56	8.7	6.1	56	12.4	5.6	55	11.1	5.1
SAMURU	45	12.9	5.2	42	10.1	6.0	43	9.9	6.4	43	12.8	6.6	43	11.4	4.7
KADJIADO MAASAI	150	11.4	5.2	149	10.2	5.1	150	9.2	6.0	148	12.3	5.7	149	10.7	4.9
KONY	23	10.0	5.2	23	7.3	4.4	23	7.3	4.0	23	10.8	4.5	23	8.4	4.2
NANDI	50	10.4	5.5	50	9.4	5.4	50	9.9	5.5	50	13.0	5.3	50	10.7	4.6
KIPSIGIS	43	11.9	6.1	43	10.1	5.9	43	9.4	5.8	43	11.2	5.8	43	10.0	5.0
TUGEN	100	12.6	5.3	94	8.7	4.9	97	8.9	4.5	95	11.5	4.7	101	10.1	4.5
KEYO	50	11.6	6.3	50	8.1	5.2	50	8.7	5.2	50	11.7	5.3	50	8.8	4.5
MARAKWET	56	10.3	7.1	56	7.2	5.2	56	8.7	5.2	56	11.5	5.1	56	9.8	4.1
POKOT	51	11.8	6.1	52	9.2	5.0	51	9.9	5.5	52	11.8	6.1	51	9.4	5.0
ITESO	47	11.4	5.7	47	10.0	4.5	47	10.1	5.1	47	12.3	5.1	47	9.6	4.3
TURKANA	42	12.4	5.8	43	9.6	5.5	43	11.2	6.5	43	11.9	5.4	42	11.0	4.7
LUO	107	11.6	6.5	107	10.1	5.6	107	10.3	5.4	107	13.0	5.8	107	11.3	4.3
GUSII	51	13.2	5.9	51	8.7	6.4	51	9.1	5.9	51	12.4	6.0	50	11.0	4.9
TIRIKI	25	14.2	4.1	25	9.6	5.9	25	10.5	5.3	25	13.2	5.0	25	11.8	4.2
MARAGOLI	24	12.3	5.6	24	8.7	4.9	24	8.6	5.0	24	11.8	4.7	24	9.7	3.3
BUNYORE	20	11.3	6.1	19	7.5	6.4	20	7.1	5.3	20	10.8	5.8	20	9.5	4.0
IDAKHO	15	12.7	6.0	15	8.1	5.5	15	8.9	5.2	15	10.7	5.7	15	10.2	4.3
MARANA	25	11.6	6.5	25	9.5	6.0	25	9.7	5.8	25	14.3	4.4	25	11.8	4.5
WANGA	24	10.5	7.2	24	8.4	6.2	24	7.7	5.6	24	10.7	4.6	24	8.0	3.6
MARACH	24	11.5	6.3	24	9.5	5.9	24	8.3	5.6	23	12.4	5.1	24	10.0	4.1
BUKHAYO	26	11.3	5.4	26	7.7	5.4	26	6.5	5.6	26	11.5	4.5	26	8.3	3.6
SAMIA	26	12.5	5.4	26	11.8	6.2	26	11.2	4.7	26	13.0	5.5	26	12.8	4.7
BUTSOTO	26	9.7	6.5	27	7.7	5.3	26	7.8	6.0	26	11.7	5.1	27	10.4	4.8
BUNYALA	25	12.3	6.8	24	9.4	5.8	25	9.8	5.8	25	12.4	6.5	24	10.9	4.7
KABRAS	26	11.7	6.2	26	8.0	5.6	26	6.9	6.0	26	12.6	4.8	26	10.5	4.1
BURUSU	24	9.3	5.7	26	8.0	5.5	27	7.6	4.8	26	9.9	5.0	26	6.2	4.4
KIAMBU KIKUYU	37	12.3	6.6	38	10.4	6.4	38	10.2	6.0	38	12.1	6.7	38	9.2	5.7
MURANGA KIKUYU	45	12.7	6.1	45	8.5	6.2	45	8.3	6.2	44	9.9	6.5	45	9.3	5.4
NYERI KIKUYU	51	11.7	6.0	51	9.0	5.8	51	8.5	5.7	50	11.2	5.4	50	10.0	4.2
NDIA	65	12.4	5.6	63	9.3	6.2	63	10.0	6.5	65	11.6	5.1	65	10.6	4.7
KANBA	42	14.2	5.4	42	9.8	5.4	42	10.9	4.7	42	13.3	5.0	42	12.2	4.0
EMBU	72	13.6	6.0	72	9.5	5.4	72	9.1	5.4	72	11.8	5.2	72	9.5	4.5
MBERE	62	11.8	5.6	63	8.8	5.2	64	8.0	5.2	61	9.8	5.3	62	9.1	4.2
CHUKA	58	14.3	5.4	58	10.0	5.7	60	9.6	6.3	58	11.9	4.9	55	9.8	4.2
MUTHAMBI	78	11.7	5.7	76	8.3	5.0	80	8.4	5.2	79	10.3	4.7	78	9.4	4.1
WIMBI	43	12.0	6.0	42	8.6	6.1	43	9.1	5.3	43	11.7	5.3	43	10.0	4.9
IGODI	94	12.4	6.3	94	8.7	5.8	92	9.9	5.6	93	11.8	5.7	89	9.9	4.8
IMENETI	39	10.7	5.9	39	7.7	5.2	39	8.1	5.4	39	10.5	5.6	39	9.5	4.5
IGANIA	36	11.8	6.6	36	9.0	6.1	36	9.1	5.4	36	11.5	6.2	36	9.1	4.3
IGEMBE	33	12.4	6.9	33	8.6	5.8	33	8.9	5.7	33	11.6	6.0	33	9.8	4.7
THARAKA	46	14.6	6.2	46	9.4	5.5	46	9.8	5.2	46	13.1	5.3	46	11.0	5.1
POKOMO	89	11.1	6.7	87	8.4	5.9	90	9.5	5.7	90	12.5	6.4	89	11.0	5.1
GIRIANA	34	10.7	7.1	34	8.8	5.5	34	9.0	5.2	34	11.8	5.6	34	9.0	4.1
CHONYI	13	9.8	6.1	13	9.4	5.8	13	10.3	5.7	13	12.6	5.3	13	9.2	4.9
MID. NJI KENYA	27	11.6	6.8	26	9.1	4.7	27	9.7	5.3	27	13.0	5.1	27	9.8	5.3
DIGO	99	14.1	6.5	97	11.5	5.2	99	11.5	5.3	98	14.3	5.0	100	11.5	3.7
TAITA	45	12.1	5.1	45	8.7	6.1	45	8.7	5.1	45	11.1	5.6	44	9.2	5.0
TAVETA	47	12.1	6.2	48	9.7	5.0	48	9.8	5.4	48	11.2	5.1	47	9.9	4.1

Table AP. 1.4.13 : Distribution of absolute ridge counts in Kenyan minimal ethnic population samples (right hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SUMALI	218	23.5	12.2	218	18.5	9.9	219	13.7	8.0	219	20.3	11.1	219	14.1	6.6
RENDILLE	151	22.9	10.7	150	18.2	8.7	151	13.7	7.5	150	19.1	9.3	147	13.4	5.6
GABHA	27	22.3	11.6	27	15.6	9.1	27	11.6	6.5	26	18.5	9.3	27	14.1	5.3
HORAN	127	22.7	12.6	126	14.6	10.4	126	13.0	8.6	125	19.4	10.3	125	14.1	6.5
BURJI	63	25.1	12.8	64	15.3	10.9	64	14.7	9.7	64	20.4	11.6	64	14.8	7.4
SAMBUHU	84	21.0	10.6	84	14.6	8.7	86	12.2	8.2	84	17.0	9.2	85	13.4	6.0
KAUJIADO MAASAI	63	20.5	12.2	63	13.9	9.4	63	13.3	8.4	63	19.5	11.1	63	13.0	7.5
NAROK MAASAI	35	18.3	11.9	36	13.2	10.5	35	11.9	9.5	36	16.6	10.8	36	12.0	5.6
NGWESI	41	21.8	10.1	41	16.7	9.1	40	15.0	6.6	41	19.2	9.7	41	13.5	6.0
MUKOGODD	38	25.6	12.2	38	19.1	11.4	38	14.3	7.6	38	21.1	11.6	38	14.1	7.4
KONY	36	13.0	10.5	37	9.6	7.9	37	8.9	6.3	37	13.9	10.0	37	9.9	6.0
NANDI	52	19.4	10.4	52	13.6	7.3	52	13.0	6.1	52	16.4	8.7	51	12.8	5.0
KIPSIGIS	54	20.3	11.4	54	15.7	9.4	55	14.5	7.4	53	19.5	10.1	55	14.4	6.4
TUGEM	105	19.1	10.4	106	12.7	8.9	104	12.1	7.9	107	17.0	9.9	107	12.8	6.2
MEYD	50	17.7	9.4	48	13.7	7.6	49	12.3	6.2	49	18.0	9.1	50	12.2	5.4
MARAKWET	50	19.6	9.6	50	14.0	8.9	50	13.0	6.7	50	19.5	9.9	50	13.1	6.3
POKOT	45	16.1	10.2	45	14.7	8.9	45	11.5	6.5	44	17.1	8.8	45	11.3	6.0
LYESO	52	18.5	12.5	52	11.2	8.1	51	11.0	6.0	52	15.3	8.5	52	11.3	5.3
TURKANA	62	21.7	11.4	65	14.0	9.1	65	12.5	6.3	65	19.4	10.4	62	13.2	6.9
LUO	168	20.6	11.3	168	13.3	8.4	167	12.6	7.9	168	17.8	9.2	167	12.8	6.2
GUSII	50	21.8	12.3	49	13.9	8.0	49	12.2	7.5	49	17.8	9.5	46	13.6	5.4
TERIKI	26	19.2	13.6	26	12.6	10.0	26	13.0	9.8	26	17.3	10.4	26	13.2	5.9
MARAGOLI	26	17.9	12.3	26	11.8	9.4	26	11.7	7.7	26	17.2	10.6	26	11.8	5.1
BUNDRE	30	21.4	11.1	30	16.2	7.7	30	14.6	6.7	29	22.1	9.1	30	13.7	4.8
IDAKHO	39	17.9	12.1	39	15.0	9.4	39	13.5	7.8	39	16.9	9.2	39	12.3	4.6
MARANA	25	22.3	12.0	25	17.4	7.0	25	16.2	8.2	25	22.8	9.7	25	14.7	5.4
WANGA	25	21.1	10.6	25	13.2	6.3	25	10.5	4.7	25	18.1	7.3	25	11.8	4.4
MARACH	25	19.9	12.3	25	16.1	10.9	25	15.1	9.3	25	19.2	10.7	25	13.2	7.0
BURKAYO	22	18.1	12.4	22	12.4	8.0	22	10.9	5.3	22	14.9	8.1	22	11.1	4.0
SARIA	24	21.6	11.3	24	12.9	8.1	24	11.4	6.5	24	18.5	9.8	24	14.4	7.8
BUTSOTISO	20	22.1	9.6	20	14.5	6.9	20	14.0	6.8	20	21.6	8.7	20	14.3	5.6
BUNYALA	25	24.0	13.5	25	13.2	9.4	25	11.1	7.8	25	17.6	10.7	25	11.8	6.3
KABRAS	26	23.5	10.6	25	16.8	8.7	24	15.0	9.5	25	20.0	9.8	26	13.3	5.0
MUKUSU	57	18.3	11.0	50	11.4	8.0	60	10.9	7.6	58	14.8	8.2	58	10.8	5.6
KIAMBU KIKUYU	64	22.0	12.3	64	16.7	10.2	63	13.9	8.4	64	19.0	10.1	64	12.9	6.5
MURANGA KIKUYU	55	22.9	12.2	54	12.9	8.8	55	13.2	8.8	54	19.4	11.6	55	12.7	6.3
NYERI KIKUYU	49	20.2	12.9	48	13.9	9.3	48	11.3	8.9	49	16.2	10.7	49	11.6	6.1
NDIA	55	20.0	11.6	56	12.6	8.1	56	11.2	5.0	50	18.2	8.7	56	11.8	5.7
KAMBA	73	21.3	12.2	73	13.7	8.4	74	12.6	7.4	74	17.1	9.2	71	12.5	5.4
EMBU	86	21.4	12.1	86	12.7	8.5	87	11.5	8.2	85	15.6	8.8	87	11.6	5.4
MBERE	62	22.0	13.0	61	13.5	9.1	63	13.5	8.0	62	19.5	9.7	63	12.9	6.1
CHUKA	72	21.3	9.9	71	11.2	8.2	72	11.9	7.6	73	17.3	9.4	73	11.5	7.3
MUTHAMBI	76	21.8	12.0	75	13.3	8.7	76	11.0	7.0	76	16.5	9.2	76	12.9	7.1
MWIMBI	59	19.5	11.2	60	12.4	7.4	59	10.3	6.8	59	13.6	8.4	60	11.5	5.4
IGOTI	76	22.7	12.5	78	13.8	9.7	77	12.6	8.7	76	18.2	11.0	77	12.0	7.6
IMENTI	61	20.1	11.5	61	12.6	8.4	60	11.1	6.4	59	17.1	8.6	60	13.0	5.8
TIGANIA	64	20.3	12.2	64	12.3	7.7	64	10.9	7.0	64	16.4	9.4	64	11.2	4.9
IGEMUE	62	22.1	11.1	64	12.1	7.4	64	10.9	5.6	63	17.9	9.5	64	12.9	5.7
THARAKA	54	21.6	12.2	53	14.5	10.1	54	13.0	8.2	54	18.1	10.6	54	13.2	6.5
POKOMO	92	19.2	11.6	92	13.5	9.7	93	12.4	8.2	92	16.6	10.1	93	13.9	7.0
MALAKOTE	40	20.7	9.9	39	14.7	9.4	39	13.2	8.0	39	18.5	9.2	40	13.9	6.3
GIRIAMA	49	22.8	14.2	49	13.4	10.2	49	12.8	8.6	49	18.8	8.8	49	11.9	3.9
CHONYI	78	21.7	13.0	78	13.0	9.9	78	11.5	7.2	79	15.3	9.6	79	12.6	6.1
MID WJ KENEA	32	22.1	12.3	32	14.8	9.6	32	13.8	8.0	32	18.1	10.1	32	12.5	5.3
DIGO	114	23.6	12.7	115	15.8	9.5	116	14.5	8.3	116	21.0	9.9	115	14.2	6.3
TAITA	54	18.8	12.4	55	12.2	8.6	55	10.0	6.5	54	15.5	8.7	53	10.5	4.5
TAVETA	57	19.5	12.7	56	11.6	8.8	56	10.3	6.7	58	14.6	9.3	58	11.6	6.0

Table AP. 1.4.14 : Distribution of absolute ridge counts in Kenyan minimal ethnic population samples (left hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	216	21.2	11.7	221	14.7	9.7	221	14.4	9.3	221	19.2	11.2	216	14.0	6.6
RENDILLE	150	22.4	10.7	145	15.5	9.4	143	14.0	8.3	147	18.2	9.0	148	13.0	5.8
GABRA	27	18.2	9.9	27	13.8	8.3	27	14.1	8.2	27	16.4	8.7	27	12.8	4.7
HURAN	126	19.5	12.4	127	13.9	10.6	126	13.4	9.7	125	18.0	10.9	124	14.1	6.6
HURJI	64	23.1	11.4	64	14.5	10.3	63	15.0	10.2	61	20.4	11.5	64	15.0	7.9
SAMBURO	45	18.7	10.2	44	13.6	9.4	44	11.8	8.3	44	16.7	9.7	42	13.7	6.5
KADJIADO MAASAI	63	17.7	12.9	63	13.3	9.1	63	13.0	9.1	63	17.9	12.0	63	13.3	7.8
MAHOK MAASAI	36	15.4	11.7	36	14.5	11.2	36	12.0	10.6	36	15.9	9.7	36	11.1	5.4
NGWESI	39	20.9	9.9	40	16.3	9.6	39	15.9	8.6	40	18.8	9.2	40	12.2	6.4
MUKUGUDU	38	23.4	11.0	38	16.6	10.1	37	15.5	9.7	38	20.8	10.9	38	15.0	8.3
KONY	37	12.2	9.9	37	8.7	7.3	37	8.6	7.5	37	13.3	9.2	37	10.1	5.9
NANDI	52	17.1	9.7	51	13.7	8.1	52	13.4	7.5	52	17.4	8.9	52	13.0	5.7
KIPISIGIS	55	18.7	11.7	55	13.6	9.1	55	15.0	9.4	55	19.9	11.2	55	13.7	6.3
FUGEN	105	16.8	10.4	103	12.2	9.5	106	12.7	9.1	106	18.9	9.0	106	12.0	6.3
KEYO	50	16.0	9.4	50	13.2	9.2	49	13.0	8.0	50	18.0	8.6	49	12.3	5.5
MAKAKWET	50	16.2	9.5	50	12.7	9.1	50	13.6	8.9	50	17.7	8.4	50	12.6	6.0
POKOT	45	14.7	9.6	44	12.0	9.3	44	12.0	7.9	44	15.0	8.6	45	11.0	5.4
ITESO	52	15.2	13.2	52	9.8	7.1	52	10.3	6.7	51	14.9	8.3	52	11.8	6.0
TURKANA	63	19.6	11.1	64	12.1	9.0	65	11.8	8.4	63	18.1	10.4	63	13.0	7.0
LUO	168	17.6	11.4	169	13.8	9.0	169	13.3	8.6	169	17.0	9.1	169	12.3	6.0
GUSII	50	17.5	11.6	50	13.2	8.2	50	12.0	7.5	49	16.3	9.2	50	12.8	5.2
YIKI	26	17.0	13.6	26	12.6	10.6	26	12.5	10.2	26	16.3	9.2	26	12.0	5.7
MAKAGOLI	26	15.6	12.9	26	13.2	10.1	26	12.0	9.9	26	15.9	10.6	26	10.8	4.6
RINYORE	30	19.4	11.7	28	15.5	7.3	30	13.9	7.5	30	18.6	7.4	30	13.0	4.4
IOAKHO	39	15.7	11.0	39	11.5	8.0	39	12.3	7.5	38	17.9	10.1	39	11.7	4.3
MAHAMA	24	16.6	11.2	25	16.4	9.1	25	16.2	8.3	25	21.4	8.2	25	14.7	6.6
WANGA	25	17.2	9.6	24	10.7	10.5	28	8.6	5.3	25	13.6	6.2	25	10.9	6.9
MURACH	24	16.3	9.7	25	15.6	9.9	25	14.8	9.6	25	18.2	11.2	25	12.2	6.1
MURHAYO	23	15.1	9.5	23	13.3	9.9	23	11.5	6.9	23	15.4	6.7	23	11.0	6.4
SANIA	24	17.5	10.8	24	13.1	10.8	24	11.2	5.9	24	15.9	7.2	24	12.3	5.3
GUITSISO	20	15.9	7.9	20	11.4	5.2	20	14.3	6.6	20	21.8	11.0	20	13.5	4.1
BUNYALA	25	22.8	14.0	25	11.6	9.0	25	12.3	6.9	25	15.6	11.4	25	12.2	7.0
KARAS	26	18.7	11.7	26	14.5	8.1	26	13.1	9.0	25	17.1	10.2	26	12.7	5.3
BUKUSU	58	14.4	10.3	60	11.4	9.0	61	10.0	8.0	58	14.7	9.2	60	10.1	5.5
KIAMBU KIKUYU	63	19.8	11.2	63	14.6	10.3	64	13.7	8.7	63	18.4	10.1	63	12.3	6.9
MURANGA KIKUYU	56	21.9	11.6	56	14.0	9.6	56	11.8	8.2	56	18.8	11.5	56	13.0	7.0
NYERI KIKUYU	49	16.9	12.8	48	12.1	9.7	49	11.1	9.9	48	15.6	10.4	49	10.7	6.2
NDIA	53	16.9	10.9	53	11.8	8.7	55	11.3	7.5	52	16.3	9.4	56	11.6	5.8
KAMBA	73	20.0	12.2	75	12.6	9.1	74	12.8	10.0	72	16.5	9.1	71	12.9	6.6
EMBU	85	17.9	12.2	86	10.9	8.3	87	11.3	9.0	86	14.3	9.5	87	11.0	5.5
WREGE	62	19.0	13.0	63	14.3	8.9	62	14.4	9.9	63	19.1	10.0	62	13.1	6.9
CHUKA	74	18.8	10.2	73	10.6	8.4	72	11.5	7.9	72	16.2	9.2	73	10.8	5.5
MUTHAMBI	74	18.7	12.1	74	11.1	8.6	76	11.3	8.9	73	14.2	8.6	73	11.5	5.8
MWIMBI	61	17.5	10.9	60	11.6	8.6	61	10.5	8.5	59	13.9	7.9	61	10.5	5.4
IGUJI	73	16.5	11.0	73	13.3	10.1	76	13.0	9.3	75	17.4	11.4	76	11.6	6.8
IKENT	60	17.0	11.6	61	11.5	9.1	59	11.1	7.0	60	15.7	8.7	59	11.5	6.3
IKANIA	64	17.6	10.8	64	11.8	8.6	64	10.9	6.0	64	16.1	9.0	64	11.8	5.9
IGEMBE	64	18.0	11.9	63	10.3	7.3	65	11.7	8.0	65	17.2	9.6	64	11.6	5.1
THARAKA	54	20.1	11.4	52	13.2	9.1	53	13.1	10.3	52	18.1	10.9	54	13.1	7.0
POROMO	92	17.0	11.0	90	13.1	10.2	90	12.1	9.5	92	16.9	9.9	92	13.0	6.9
MAKOTIE	41	16.2	9.0	41	12.3	8.0	41	12.2	8.7	41	15.4	8.9	41	11.7	5.4
GIRIANA	48	19.9	12.9	45	11.0	10.1	48	11.3	7.3	49	16.2	9.5	49	11.3	4.7
CHONYI	76	18.7	12.5	73	11.7	9.8	78	11.0	8.1	77	17.4	10.0	77	12.0	6.0
MID. WIJ. KENYA	31	19.8	11.2	31	13.5	10.4	31	13.2	9.5	32	17.6	10.0	31	12.1	6.7
OIGO	113	20.2	12.0	113	14.3	9.4	116	15.5	9.5	113	19.0	9.0	115	12.4	6.0
TALTA	58	18.6	11.6	52	10.8	8.6	54	11.5	8.1	54	14.6	8.6	54	10.1	5.7
FAVETA	54	16.7	11.7	55	10.2	7.4	52	10.4	7.8	55	14.3	8.9	56	11.1	6.4

Table AP.1.4.15: Distribution of absolute ridge counts in Kenyan minimal population samples (right hand : females)

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	20.3	10.9	103	14.4	9.2	103	12.0	7.6	103	17.2	10.1	103	12.6	5.6
MENDILLE	45	22.9	10.6	44	14.6	7.4	42	12.9	6.8	44	18.5	9.0	43	12.9	4.6
GABBARA	63	20.3	9.3	60	14.8	8.6	61	13.5	7.3	62	18.6	10.0	62	13.1	6.6
HIRAN	56	18.3	10.5	56	13.8	9.1	56	11.1	7.7	55	16.1	8.5	57	11.6	5.1
BUHJI	55	18.5	10.8	54	11.8	9.0	55	11.0	7.8	56	16.4	11.1	55	12.2	6.7
SAMBURU	42	19.0	9.7	43	13.0	9.0	42	11.9	8.1	42	18.2	11.3	42	12.9	6.1
KADJITADO MAASAI	150	17.9	10.8	150	14.4	9.9	149	11.4	7.4	150	16.5	10.1	150	11.9	6.3
KINY	23	18.2	7.1	23	8.8	5.0	23	8.7	4.5	23	12.6	7.8	23	8.9	3.8
NANDJI	50	16.1	10.6	50	12.9	6.9	50	10.8	6.5	49	17.3	9.4	50	11.7	6.1
KIPISIGIS	43	19.0	11.4	43	13.9	9.5	43	11.7	8.5	43	15.6	10.1	43	11.7	5.8
TUGEN	102	18.7	9.4	101	11.4	7.1	101	11.5	5.5	99	15.2	8.3	101	11.3	5.1
KEYO	50	15.2	10.6	50	11.4	6.4	50	10.0	6.4	50	15.0	9.1	50	10.1	5.3
MAKAKWEI	56	16.3	9.4	56	10.7	8.0	56	10.1	6.2	56	15.4	9.7	56	10.6	5.0
POKOT	53	15.6	8.7	53	13.1	8.0	53	11.8	8.4	52	15.6	9.6	53	11.0	5.8
ITESO	47	19.1	10.7	47	14.3	9.0	46	12.2	6.0	47	16.4	8.5	47	11.5	5.6
TURKANA	42	19.3	9.3	40	14.0	9.6	42	14.3	9.6	42	17.8	11.7	43	13.5	7.0
LUO	107	16.6	11.2	107	14.3	9.4	107	12.8	8.5	106	16.3	10.6	107	12.6	6.2
GUSII	51	20.9	11.2	50	14.2	10.7	51	12.5	9.1	50	16.9	10.7	51	12.1	6.6
TIRIKI	25	18.6	9.6	25	13.8	9.0	25	12.5	6.0	25	17.4	9.7	25	13.5	5.8
MARAGOLI	24	17.0	10.2	24	12.1	6.0	24	12.3	6.7	24	17.8	6.6	24	10.7	4.5
BUNYORE	20	19.9	10.4	20	10.6	7.1	20	10.2	7.0	20	15.8	10.4	20	11.3	4.1
LOAKHO	15	16.8	11.4	15	9.7	7.8	15	10.3	8.1	15	18.5	8.2	15	11.1	4.3
MARANA	25	19.8	12.1	25	14.1	9.7	25	12.2	8.2	25	18.4	9.6	25	14.0	5.8
WANGA	24	16.3	13.2	23	10.8	7.8	24	11.3	6.1	24	18.0	8.1	24	9.5	4.1
MARACH	24	17.0	11.5	23	14.1	11.4	23	11.1	6.3	23	17.3	10.6	23	10.7	4.6
BUKHAYO	26	15.8	7.6	26	11.0	6.6	26	10.8	6.7	26	16.2	8.8	25	12.0	5.5
SAMIA	26	17.7	9.8	26	10.3	8.3	26	14.5	9.2	26	19.4	10.1	26	14.9	6.8
BUESOTSO	27	15.8	10.3	27	10.4	6.7	27	9.2	6.5	27	15.6	8.6	27	11.6	5.1
BUNYALA	24	20.5	13.6	25	12.3	7.9	25	11.4	8.7	25	15.9	10.0	25	12.7	5.3
KABHAS	26	18.1	11.9	26	11.4	7.0	26	10.5	6.6	26	18.3	7.1	26	11.5	4.6
BUKUSU	24	18.2	8.5	24	9.1	6.3	27	9.7	4.9	25	13.8	6.0	25	10.2	6.2
KIAMBU KIKUYU	38	18.8	13.4	38	13.6	9.7	38	11.9	7.6	38	16.4	11.6	37	11.6	7.5
MURANGA KIKUYU	45	18.8	12.4	45	11.5	8.1	45	10.4	7.2	45	18.3	9.6	45	9.5	5.8
NYERI KIKUYU	49	16.9	9.5	51	13.3	9.1	51	11.5	6.9	50	13.5	8.0	51	11.4	4.6
NDIA	64	19.4	12.3	66	13.0	9.1	65	11.8	7.4	66	15.5	9.1	66	12.5	6.2
KAMIA	41	20.7	10.3	42	14.2	8.4	42	13.5	5.9	42	18.7	9.5	40	13.2	4.6
EMBU	72	20.5	11.3	72	13.0	8.0	72	10.6	6.1	72	15.2	8.2	72	10.7	5.0
MBERE	66	16.7	8.5	65	11.8	7.6	66	9.8	5.5	64	12.8	7.2	65	10.1	4.8
CHUKA	58	20.6	10.7	58	13.0	8.6	58	11.4	7.0	55	15.2	9.3	55	11.8	5.4
MUTHAMBI	78	18.6	10.1	78	12.3	7.8	80	10.8	5.8	78	15.2	8.1	76	10.5	5.0
MWINDI	43	18.9	12.8	41	13.3	8.9	43	11.2	5.8	42	15.7	8.8	43	11.6	6.4
IGODJI	91	18.2	11.4	94	12.7	9.2	93	11.6	7.5	92	16.4	9.2	94	11.1	5.8
IMENTI	39	17.1	10.2	39	11.9	8.4	39	10.4	7.6	38	13.9	8.8	39	10.1	5.2
TIGANIA	36	17.9	10.5	36	11.9	8.1	36	10.7	5.8	36	13.6	9.1	36	9.7	5.5
IGEMBE	32	16.4	11.2	33	11.9	8.5	33	10.2	5.4	33	15.7	8.4	33	10.8	5.3
THARAKA	46	21.3	12.4	46	13.2	7.9	46	11.8	7.0	46	15.7	8.5	46	11.7	6.0
POKOMI	90	17.0	11.3	89	12.2	8.8	90	11.3	7.8	90	17.9	10.1	89	12.5	5.7
GIRIAMA	34	17.3	12.8	34	11.9	8.7	34	10.7	7.6	34	15.8	8.8	33	11.0	5.9
CHONYI	13	14.8	10.5	13	10.3	8.4	13	13.4	7.6	13	16.8	9.0	13	11.3	5.7
MID WJI KENDA	27	16.9	11.6	27	13.2	9.9	27	11.7	6.0	27	16.9	8.9	27	11.6	5.1
DIGO	99	23.8	12.7	100	18.2	10.4	99	15.7	9.1	100	21.4	9.7	99	13.4	6.0
TAITA	45	17.5	10.6	45	11.4	9.9	45	11.6	7.0	45	15.4	9.7	45	11.4	6.3
TAVETA	46	17.5	10.2	48	14.3	9.7	48	11.3	7.3	48	16.0	8.7	47	11.0	5.4

Table AP.1.4.16: Distribution of absolute ridge counts in Kenyan minimal population samples (left hand : females)

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	20.6	10.5	103	13.8	9.1	102	12.5	9.0	102	16.5	8.9	101	12.6	5.8
RENDILLE	46	21.4	11.3	46	14.8	9.7	45	14.0	8.7	45	19.4	9.6	45	12.8	5.4
GABBARA	61	18.6	9.5	61	13.7	9.0	63	13.3	9.4	61	17.9	9.8	62	12.9	6.5
BOHAN	57	15.0	10.9	57	12.2	9.8	58	11.4	9.5	58	15.0	9.2	58	11.9	5.8
GUJJI	55	19.6	12.2	56	11.5	9.3	56	11.3	10.2	56	15.9	10.5	55	12.8	7.4
SAMBURU	45	16.9	9.8	42	13.4	10.2	43	12.8	10.6	43	18.2	12.0	43	13.2	7.0
KADJIADDO MAASAI	150	15.6	11.1	149	13.7	10.1	150	11.9	10.1	148	15.8	9.6	149	12.1	7.1
KUNY	23	10.9	6.9	23	7.5	4.7	23	7.9	5.5	23	14.9	8.9	23	8.7	4.3
NANDI	50	14.2	11.0	50	12.8	9.7	50	12.5	9.6	50	17.1	9.7	50	11.8	6.2
KIPSIGIS	43	15.8	10.5	43	13.8	10.4	43	12.0	9.9	43	14.7	10.7	43	10.6	5.8
TUGEN	100	16.2	9.1	94	10.6	8.3	97	10.0	6.5	95	15.3	9.0	101	11.0	5.8
KEYO	50	15.3	11.2	50	10.4	4.3	50	10.5	6.3	50	15.4	9.7	50	9.7	6.0
MAHAKSET	56	12.9	10.1	56	8.9	7.8	56	10.4	8.1	56	15.6	9.5	56	11.6	6.5
POKOT	51	14.1	8.9	52	12.9	9.5	51	12.7	9.5	52	16.8	11.5	51	10.5	6.7
ITESO	47	14.7	10.3	47	13.6	8.5	47	12.3	8.5	47	16.9	9.5	47	10.5	5.9
TURKANA	42	16.4	10.9	43	12.7	10.1	43	13.6	10.6	43	16.1	10.9	42	12.6	7.1
LUD	107	16.1	11.7	107	13.9	10.3	107	13.1	9.8	107	17.1	10.6	107	12.5	6.2
GUSEI	51	18.6	11.6	51	12.2	11.0	51	11.4	9.9	51	17.2	12.0	50	12.3	6.7
TIRIKI	25	19.1	8.7	25	12.7	10.1	25	13.6	9.3	25	16.4	9.3	25	12.8	6.2
MAHAGOLI	24	16.9	9.8	24	10.8	7.8	24	10.3	8.0	24	15.1	8.1	24	10.2	6.2
HUNYORE	20	17.1	11.6	19	9.2	9.2	20	7.1	5.3	20	11.1	6.3	20	9.6	4.1
IOAKHI	15	17.9	12.0	15	10.2	9.9	15	10.4	8.5	15	14.3	10.7	15	10.8	5.1
MARAMA	25	16.8	11.8	25	13.6	10.6	25	13.5	10.6	25	18.2	8.9	25	14.3	7.3
MANGA	24	15.1	11.9	24	10.6	10.1	24	8.7	7.2	24	13.7	9.8	24	8.6	4.9
MAHACH	24	15.2	10.9	24	13.0	10.8	24	10.0	9.1	23	16.7	9.5	24	10.8	5.3
BUKNATO	26	15.0	10.6	26	9.8	8.1	26	10.1	8.7	26	14.7	8.5	26	9.6	5.7
SANIA	26	15.6	9.7	26	17.3	11.6	26	14.0	9.8	26	17.1	10.1	26	14.7	6.6
BUTSOTSD	26	12.2	9.9	27	10.8	9.4	26	10.3	10.2	26	15.1	9.5	27	11.4	6.3
BUNYALA	25	17.7	12.8	24	11.1	9.4	25	11.7	10.1	25	15.1	11.4	24	11.5	5.1
KARRAS	26	14.3	9.5	26	9.8	8.5	26	9.7	7.5	26	14.5	7.2	26	10.8	4.5
BUKUSU	24	12.4	9.4	26	10.1	8.4	27	8.8	6.5	26	11.5	7.2	26	8.4	4.6
KIAMBU KIKUYU	37	16.6	12.3	38	14.1	10.8	38	12.4	10.2	38	15.6	11.6	38	10.7	8.4
MURANGA KIKUYU	45	17.2	10.8	45	11.1	9.8	45	9.3	7.8	44	12.6	9.8	45	9.8	6.2
NYERI KIKUYU	51	15.1	9.9	51	11.5	9.0	51	10.4	8.7	50	14.7	8.9	50	10.8	5.5
NDIA	65	17.0	10.7	63	12.3	10.2	63	12.0	9.0	65	15.5	9.2	65	12.0	6.8
KANGA	42	19.6	10.7	42	13.0	9.4	42	13.0	7.5	42	17.1	9.5	42	13.2	5.5
EMBU	72	19.5	11.4	72	12.2	9.1	72	10.3	7.7	72	15.9	9.1	72	10.5	6.3
MBERE	62	15.4	10.1	63	10.8	8.2	64	9.0	7.1	61	12.2	8.7	62	9.6	5.1
CHUKA	58	20.8	10.8	58	14.1	9.9	60	12.0	9.7	58	16.3	9.9	55	10.9	5.9
MUTHAMBI	78	16.3	10.3	76	10.8	8.2	80	10.6	8.5	79	13.6	8.6	78	10.4	5.5
WIMBOI	43	10.7	11.4	42	11.8	10.2	43	9.9	6.7	43	15.0	9.8	43	11.3	7.1
IGOJI	94	17.6	11.3	94	12.1	9.8	92	11.9	9.0	93	15.6	9.7	89	11.1	6.8
INENTI	39	14.9	10.7	39	10.1	8.2	39	9.7	7.9	39	14.4	10.0	39	10.2	5.8
TIGAMIA	36	15.9	11.3	36	11.4	9.6	36	11.2	8.8	36	15.2	10.6	36	10.3	6.5
IGEMBE	33	15.8	11.2	33	10.8	9.1	33	9.7	7.6	33	15.3	10.2	33	11.2	6.4
THARAKA	46	22.3	12.0	46	12.1	8.8	46	11.8	8.3	46	17.0	9.0	46	11.7	6.1
POKOMO	49	15.7	11.6	47	11.4	9.9	49	11.8	9.4	49	16.1	10.6	49	11.8	6.4
GIRIANA	34	15.9	12.7	34	12.2	9.4	34	10.4	7.9	34	14.6	9.1	34	9.5	5.1
CHONYI	13	13.1	10.3	13	12.0	9.6	13	13.5	10.2	13	14.5	8.0	13	9.9	6.2
MID WJI KENDA	27	15.7	13.0	26	12.0	8.0	27	11.1	7.8	27	17.7	9.6	27	10.8	6.8
DIGO	99	22.0	12.7	97	17.5	10.3	99	16.0	10.2	98	20.2	10.0	100	12.5	5.5
TAITA	45	17.0	10.2	45	11.5	10.4	45	9.8	7.3	45	15.1	10.7	44	10.4	7.6
TAVETA	47	17.3	11.0	48	13.2	8.9	48	12.4	8.7	48	14.5	8.9	47	10.6	4.9

Table AP. 1.4.17 : Distribution of total ridge counts in Kenyan minimal ethnic population samples (males)

Right Hand

Left Hand

POPULATION	TOTAL RADIAL			TOTAL ULNAR			TOTAL UNILATERAL			TOTAL ABSOLUTE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	211	63.2	20.0	215	23.9	23.5	211	66.1	21.3	211	62.5	21.1
RENDILLE	145	64.6	18.2	146	21.3	18.8	145	66.1	18.2	145	61.3	19.5
GABRA	26	64.4	16.8	26	18.2	18.2	26	65.7	16.9	26	59.3	18.4
HORAN	121	63.0	22.4	123	20.7	22.7	123	64.9	23.4	123	63.7	20.7
GURJI	63	64.6	22.6	64	25.7	25.9	63	67.0	22.9	63	63.0	23.0
SAMBURO	82	60.6	19.1	83	17.2	18.5	82	62.0	19.3	82	55.4	20.8
KADJADDO MAASAI	35	60.4	23.5	35	19.7	22.5	35	62.3	24.2	35	55.4	20.8
NAROK MAASAI	35	55.7	22.1	35	17.2	22.2	34	57.2	23.5	34	52.1	22.0
NGWESI	40	60.0	20.0	41	19.7	17.9	40	68.2	19.5	40	61.6	18.7
MUKOGORO	38	67.0	22.0	38	27.2	21.9	38	69.3	23.0	38	64.0	23.9
KONY	37	45.3	21.7	36	10.5	14.9	36	46.0	22.7	37	42.0	21.4
NANDI	52	58.7	17.5	51	16.6	17.3	51	60.4	18.1	52	57.6	18.9
KIPSTIGIS	53	64.1	18.3	52	20.4	23.5	52	65.2	19.4	53	58.0	20.3
TUGEN	105	56.9	19.4	104	16.7	21.4	102	59.3	20.7	101	54.4	20.1
KEYO	47	58.6	17.6	49	15.6	19.4	46	60.3	18.9	46	55.4	19.4
MARAKWET	50	61.6	16.8	50	17.8	17.8	50	62.0	17.2	50	56.4	18.6
POKOT	44	55.0	22.7	45	14.6	16.3	44	57.2	19.7	44	53.2	20.8
ITESO	51	53.4	22.7	52	14.0	14.3	51	55.9	22.8	51	48.7	23.3
TURKANA	65	57.7	23.6	63	23.4	19.0	60	60.3	23.6	60	53.9	23.0
LUDI	165	59.5	19.1	164	17.5	20.0	163	61.3	19.8	163	55.5	20.5
GUSII	48	61.5	19.7	49	17.4	15.2	48	63.5	20.4	48	56.1	19.2
TIRIKI	26	55.7	23.1	26	19.7	23.0	26	58.1	26.5	26	53.4	22.7
MARAGOLI	26	53.9	20.7	26	14.6	19.5	26	56.4	22.0	26	50.2	21.5
BUNYORE	39	65.4	14.0	39	22.7	18.6	39	68.9	13.4	39	62.1	14.0
IDAKHO	39	61.8	19.1	39	13.8	19.9	39	62.8	19.7	39	56.2	17.0
MARWA	25	66.2	19.5	25	27.1	19.5	25	69.3	19.6	25	62.9	18.7
WANGA	25	61.0	19.6	25	13.6	12.5	25	64.0	19.5	25	58.3	20.7
MARACH	25	60.9	25.0	25	22.6	21.9	25	64.2	26.1	25	58.3	24.2
MUKHAYO	22	54.5	20.2	22	11.9	13.9	22	57.2	20.5	22	51.6	22.0
SAMIA	24	59.6	20.4	24	19.2	19.6	24	63.3	22.4	24	56.2	17.4
MUSSETSO	20	67.5	16.4	20	19.8	15.8	20	70.2	18.2	20	61.9	18.6
RUNYALA	25	56.1	24.4	25	21.6	20.9	25	60.6	25.6	25	53.8	22.5
KABRAS	24	64.3	14.9	25	26.2	17.5	24	67.8	15.1	24	57.9	21.3
BURUSU	54	50.6	21.4	56	14.4	17.2	53	51.5	21.6	53	45.1	20.1
KIABHU KIKUYU	63	64.7	23.2	63	18.3	20.3	63	66.0	23.8	63	60.6	23.4
MURANGA KIKUYU	54	60.2	23.2	53	20.6	20.2	53	62.9	23.0	53	56.3	24.9
NYERI KIKUYU	47	58.9	23.9	47	19.0	19.1	47	56.1	24.3	47	50.9	20.0
NOKIA	55	57.8	19.7	56	13.6	16.2	55	59.4	20.1	55	51.6	22.0
KANBA	70	59.8	19.4	71	17.5	17.9	70	61.9	20.5	70	55.9	21.6
EMBU	84	57.0	20.9	86	15.0	17.8	83	56.7	21.0	83	49.6	23.3
MWERE	62	60.9	21.0	60	19.9	20.7	59	62.2	21.8	59	50.1	21.9
CHUKA	70	55.5	16.9	71	17.1	19.0	70	57.9	18.0	70	50.2	17.4
MUTHAMBI	75	57.4	19.6	76	18.2	19.2	75	59.5	20.4	75	49.4	18.7
MWARI	59	55.4	18.5	58	11.8	16.6	57	56.1	18.7	57	46.6	20.4
IGODJI	73	60.1	23.1	77	19.0	22.0	73	62.3	24.2	73	54.5	24.4
IMENI	59	57.2	18.6	60	16.8	17.7	59	56.5	18.8	59	48.6	20.2
TIGANIA	64	55.0	20.5	64	16.1	17.2	64	57.2	21.1	64	45.3	21.1
IGERNE	61	58.6	19.3	62	17.4	16.2	61	60.9	19.4	61	51.4	20.6
THAKA	53	59.6	23.5	54	20.6	20.4	53	61.9	23.0	53	46.0	20.2
POKOMO	90	59.2	22.6	91	18.0	19.9	90	61.2	23.3	90	51.9	21.9
MALAKOTE	39	61.7	19.7	39	19.2	20.3	39	63.9	20.0	39	48.0	20.2
GIRIAMA	49	57.5	20.1	49	22.2	21.4	49	61.2	22.0	49	46.0	20.2
CHONYI	78	57.9	22.1	79	19.1	19.1	78	60.7	22.7	78	51.6	21.6
MID MJI KENYA	32	60.3	21.4	32	20.9	23.2	32	62.5	22.9	32	53.0	22.4
DIGO	112	65.5	20.5	115	23.9	21.4	112	67.3	21.2	112	59.0	19.5
TAITA	53	55.0	21.7	55	12.3	16.3	53	56.5	21.7	53	52.3	23.0
TAVETA	55	52.3	23.7	56	15.3	17.5	55	54.5	24.5	55	47.3	22.8

Table AP. 1.4.18 : Distribution of total ridge counts in Kenyan minimal ethnic population samples (females)

Right Hand

Left Hand

POPULATION	TOTAL RANGEL			TOTAL JENAM			TOTAL UNIS. RANGEL			TOTAL ANGILOTHI			TOTAL DANYAL			TOTAL UN. MAN			TOTAL ANGILOTHI						
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD				
GIMALLI	103	50.2	18.0	103	18.3	19.7	103	60.5	19.0	103	76.6	18.7	99	57.6	19.8	101	18.5	19.8	99	57.5	20.3	99	76.0	18.8	
	GHINDILLI	41	61.0	19.0	41	18.3	17.0	41	65.1	19.0	41	81.6	19.2	48	57.6	19.8	46	23.0	20.2	48	62.1	19.1	48	81.6	18.9
	GABHUA	60	62.3	19.2	60	18.0	20.7	59	61.0	19.7	59	80.6	19.7	59	55.1	20.7	61	20.7	21.1	59	62.1	21.1	59	80.6	19.0
	GHAN	58	57.0	21.0	55	13.7	17.2	54	50.1	21.3	54	70.7	19.2	56	50.1	20.7	58	16.1	19.7	56	53.6	23.4	56	70.8	19.7
	MUGII	57	52.0	20.1	54	16.6	18.0	52	54.7	21.0	52	69.5	18.0	54	49.1	22.3	55	21.6	22.3	54	53.5	23.1	54	71.7	19.1
SAMURU	57	59.0	21.7	43	16.5	19.2	42	60.9	21.3	42	75.9	19.0	40	53.1	24.9	41	18.8	20.8	40	58.9	23.7	40	72.9	19.0	
	KADJILADU MAASAI	140	58.1	22.3	150	16.1	19.2	149	58.0	22.8	149	72.2	17.1	167	61.9	23.2	168	19.5	21.2	167	63.9	24.7	167	82.1	19.0
	KINY	23	45.4	17.0	23	7.7	10.6	23	47.3	17.9	23	53.1	17.4	23	41.0	15.0	23	6.9	17.5	23	43.9	16.7	23	62.1	17.1
	MANDI	49	45.0	21.1	50	13.6	18.9	49	45.0	21.5	43	60.1	19.1	50	50.0	22.2	50	18.7	21.4	50	53.6	22.9	50	80.7	19.2
	KIPISIGIS	41	56.0	21.5	43	15.2	20.8	41	58.5	21.3	43	72.0	19.0	41	50.7	22.1	41	16.1	19.6	41	52.6	23.8	41	80.8	19.0
EUGEN	99	50.2	18.3	99	11.5	14.8	98	57.4	18.7	98	67.4	18.6	98	48.9	19.7	98	13.7	15.5	98	51.9	19.8	98	67.9	19.8	
	KEVO	50	51.0	19.8	50	9.8	16.0	50	52.0	20.5	50	61.7	19.3	50	46.3	21.4	50	14.9	18.8	50	48.9	21.1	50	61.7	19.0
	MARAKET	56	52.4	20.5	56	10.5	18.7	56	53.4	20.9	56	61.1	19.0	56	45.3	21.0	56	18.7	17.9	56	47.5	21.3	56	59.4	19.8
	PIKOTI	52	51.0	20.5	52	12.6	17.8	52	54.8	20.7	52	66.5	18.3	52	51.5	21.7	52	17.2	19.9	49	51.1	24.1	49	59.4	19.7
	IFESO	46	50.8	20.5	46	10.0	18.7	46	58.0	20.1	46	72.9	19.7	47	51.8	21.9	47	16.6	19.1	47	51.4	20.0	47	67.9	18.7
TIKURANA	39	61.0	19.3	39	16.7	20.1	38	63.7	20.2	38	70.1	19.0	41	51.8	21.9	42	19.2	21.7	41	55.9	24.2	41	71.7	19.7	
	LUD	107	57.3	19.5	106	17.4	21.7	106	59.4	21.3	106	74.7	19.8	107	52.0	20.9	107	20.1	24.0	107	66.1	22.7	107	72.7	19.7
	GUSII	89	59.0	21.1	51	17.0	21.9	49	61.3	23.5	49	72.6	19.4	50	50.5	20.1	51	21.2	23.4	50	54.3	25.1	50	71.6	19.0
	FIPIKILI	28	60.3	19.9	28	14.0	18.4	28	63.6	19.4	28	75.0	19.0	28	55.5	20.0	28	17.2	21.4	28	59.2	19.7	28	76.6	19.1
	MARACOLA	24	56.3	18.8	24	15.0	17.0	24	59.1	18.4	24	69.0	19.1	24	51.7	19.5	24	17.6	17.2	24	51.1	19.7	24	61.1	19.6
UNYINDE	20	51.3	19.5	20	14.2	15.7	20	55.5	18.6	20	67.8	19.1	19	44.2	21.8	19	9.1	11.5	19	45.6	23.4	19	61.5	19.1	
	TIKURU	15	51.3	20.5	15	11.1	15.2	15	52.8	20.4	15	62.8	19.3	15	40.9	20.2	15	18.7	20.6	15	50.5	20.7	15	61.5	19.1
	MARANA	25	56.8	20.6	25	19.1	23.1	25	62.1	22.6	25	78.5	17.9	25	58.1	19.9	25	22.1	24.6	25	56.9	22.0	25	76.4	19.0
	WANGA	23	62.0	20.8	23	12.7	18.1	23	51.0	21.4	23	62.1	19.0	23	47.3	22.6	23	14.6	19.4	23	47.3	22.6	23	63.8	19.8
	MARACU	23	56.8	22.0	23	13.1	18.7	23	58.3	23.3	23	70.1	19.0	23	40.8	21.3	23	17.0	19.8	23	47.3	22.6	23	63.8	19.8
HICHAYO	26	54.8	18.2	26	11.5	20.2	26	56.4	18.6	26	66.7	19.1	26	44.0	17.2	26	14.6	21.6	26	47.2	18.4	26	63.8	19.1	
	SAMBA	27	55.2	19.0	27	10.4	17.3	27	58.9	21.2	27	62.6	19.2	27	42.0	16.8	27	18.6	21.5	27	46.4	21.9	27	63.8	19.1
	UNISIGIS	24	54.8	18.7	24	10.8	17.0	24	59.3	20.6	24	73.1	18.4	24	51.5	20.4	24	16.0	21.5	24	55.4	25.5	24	71.0	19.1
	KABAS	26	58.9	18.7	26	10.0	12.3	26	56.9	18.7	26	65.7	18.9	26	48.0	20.9	26	11.0	11.7	26	51.7	20.1	26	63.8	19.1
	MUKUSU	22	61.6	17.0	22	7.1	10.7	22	62.3	18.0	22	70.1	19.1	22	38.8	18.1	22	11.0	11.7	22	41.5	19.8	22	63.8	19.1
MIANDU KIKUYU	37	56.0	27.2	37	14.4	19.9	37	57.3	27.2	37	70.4	19.8	37	47.3	26.8	37	20.1	25.7	37	54.8	26.2	37	70.4	19.8	
	MIANDU KIKUYU	45	52.2	23.2	45	12.3	17.2	45	53.4	28.0	45	64.5	19.8	45	44.5	24.5	45	15.0	17.2	45	49.0	26.2	45	63.1	17.0
	NYOTI KIKUYU	40	55.3	20.5	40	10.8	14.3	40	56.4	20.9	40	66.1	19.4	40	47.3	21.9	40	17.0	20.3	40	50.7	22.6	40	63.1	17.0
	PANAA	39	64.3	18.1	41	16.0	16.2	39	67.7	19.2	39	81.6	19.0	42	50.9	17.5	42	19.1	19.9	42	60.1	19.0	42	76.0	19.1
	EMBU	72	56.0	19.6	72	14.1	15.1	72	57.5	20.5	72	70.1	19.1	72	49.6	20.0	72	18.9	19.5	72	53.4	21.8	72	63.8	19.1
WIDE	65	51.3	18.9	64	8.1	17.0	64	53.8	19.1	64	61.2	19.4	64	41.9	19.2	64	13.4	16.0	64	48.0	20.0	64	57.7	19.0	
	CHUKA	51	56.2	23.8	58	13.9	16.8	51	58.7	24.0	51	69.0	19.4	54	49.9	20.0	54	22.7	21.6	54	58.1	23.3	54	71.7	19.6
	MUTAMBE	70	52.0	17.4	70	13.5	14.9	70	57.4	17.9	70	64.5	19.0	76	44.1	19.1	76	16.5	19.5	73	47.1	19.7	73	60.1	11.0
	MUTAMBE	40	53.4	21.4	47	14.9	15.6	40	57.4	21.9	40	71.0	19.0	41	46.8	20.2	42	16.8	18.0	42	50.6	21.9	42	63.4	18.9
	ISGOTI	30	56.0	23.7	30	18.3	18.5	30	58.4	23.7	30	62.7	19.5	30	41.9	21.2	30	17.0	18.7	30	52.1	24.2	30	67.8	19.1
ISGOTI	30	51.0	21.0	30	11.7	18.8	30	51.2	21.4	30	60.1	19.7	30	41.9	21.2	30	17.0	18.7	30	52.1	24.2	30	67.8	19.1	
	TIKURU	36	46.4	23.2	36	9.2	11.7	36	55.2	23.3	36	63.8	19.0	36	40.7	21.0	36	15.2	21.1	36	50.5	24.0	36	63.8	19.1
	ISGOTI	36	46.4	24.5	36	9.2	11.7	36	55.2	23.3	36	63.8	19.0	36	40.7	21.0	36	15.2	21.1	36	50.5	24.0	36	63.8	19.1
	TIKURU	60	57.5	21.5	60	16.2	17.3	60	59.4	22.2	60	73.7	19.7	60	54.5	21.5	60	20.9	19.5	60	57.8	22.4	60	75.0	19.4
	GIKURU	60	50.5	22.4	60	15.1	17.2	60	54.0	22.2	60	70.1	19.6	60	49.7	21.9	60	17.2	19.7	60	51.8	24.6	60	75.0	19.4
GIKURU	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6	
	GIKURU	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6
	GIKURU	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6
	GIKURU	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6
	GIKURU	31	41.8	22.9	31	15.1	17.4	31	45.9	24.4	31	60.1	19.6												

Table AP. 1.4.19 : Distribution of finger pattern intensity in Kenyan
minimal ethnic population samples (right hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	223	1.480	0.576	223	1.386	0.540	223	1.197	0.431	223	1.484	0.536	223	1.188	0.414
RENDEILLE	153	1.490	0.527	153	1.412	0.556	152	1.217	0.501	151	1.510	0.527	149	1.128	0.391
GABBA	27	1.444	0.577	27	1.407	0.501	27	1.185	0.396	26	1.300	0.510	27	1.148	0.362
RUHAN	127	1.425	0.598	126	1.254	0.619	127	1.134	0.461	127	1.425	0.546	126	1.143	0.414
UNJJI	64	1.516	0.534	64	1.313	0.614	64	1.234	0.427	64	1.500	0.504	64	1.250	0.436
SAMBURU	87	1.425	0.563	87	1.276	0.521	87	1.115	0.416	86	1.349	0.526	86	1.198	0.401
KADJADO MAASAI	63	1.365	0.576	63	1.206	0.544	63	1.190	0.470	63	1.504	0.504	63	1.206	0.408
NAROK MAASAI	35	1.286	0.622	36	1.278	0.615	36	1.139	0.543	36	1.368	0.599	36	1.139	0.351
NWESI	41	1.415	0.547	41	1.415	0.547	41	1.268	0.449	41	1.415	0.499	41	1.146	0.358
MUKOGODO	38	1.447	0.555	38	1.526	0.557	38	1.132	0.475	38	1.579	0.552	38	1.184	0.393
KONY	37	1.081	0.547	37	1.081	0.595	37	0.973	0.372	37	1.324	0.530	37	1.135	0.481
NANOI	52	1.365	0.525	52	1.327	0.550	52	1.212	0.457	52	1.385	0.630	51	1.196	0.448
KIPISIGIS	55	1.345	0.552	56	1.304	0.570	56	1.196	0.483	56	1.500	0.512	56	1.196	0.444
YUGEM	106	1.330	0.511	107	1.262	0.572	107	1.103	0.454	107	1.364	0.521	107	1.150	0.358
KUYU	50	1.240	0.517	50	1.360	0.525	50	1.060	0.314	50	1.420	0.538	50	1.160	0.422
MAHAKWET	50	1.360	0.525	50	1.380	0.530	50	1.180	0.388	50	1.460	0.503	50	1.180	0.388
POKOT	45	1.222	0.517	45	1.378	0.535	45	1.111	0.438	45	1.378	0.576	45	1.111	0.383
ITESO	52	1.269	0.598	52	1.192	0.525	52	1.077	0.334	52	1.288	0.536	52	1.096	0.298
TURKANA	66	1.515	0.614	65	1.323	0.640	66	1.152	0.533	66	1.530	0.613	64	1.234	0.463
LUU	169	1.408	0.550	170	1.276	0.499	170	1.159	0.440	170	1.406	0.538	167	1.132	0.357
GUSII	50	1.400	0.600	49	1.245	0.560	49	1.184	0.441	49	1.347	0.481	49	1.204	0.407
TIRIKI	26	1.385	0.697	26	1.269	0.724	26	1.154	0.464	26	1.423	0.504	26	1.154	0.366
MARAGOLI	26	1.231	0.652	26	1.154	0.464	26	1.077	0.392	26	1.346	0.502	26	1.077	0.392
RUNDGORE	30	1.433	0.506	30	1.400	0.563	30	1.300	0.466	29	1.517	0.509	30	1.167	0.379
IDAKHO	39	1.205	0.522	39	1.308	0.521	39	1.170	0.389	39	1.359	0.486	39	1.077	0.270
MARANA	25	1.480	0.566	25	1.400	0.590	25	1.320	0.557	25	1.460	0.476	25	1.240	0.436
WANGA	25	1.280	0.542	25	1.240	0.523	25	1.000	0.0	25	1.440	0.507	25	1.080	0.277
MARACH	25	1.260	0.523	25	1.360	0.538	25	1.200	0.577	25	1.480	0.586	25	1.120	0.440
BUKHAYD	22	1.227	0.612	22	1.227	0.528	22	0.955	0.375	22	1.227	0.528	22	1.091	0.294
SANIA	24	1.458	0.658	24	1.208	0.658	24	1.042	0.550	24	1.417	0.504	24	1.083	0.408
BUTSOTO	20	1.450	0.510	20	1.350	0.489	20	1.200	0.410	20	1.550	0.510	20	1.200	0.410
RUNYALA	25	1.520	0.580	25	1.200	0.500	25	1.040	0.539	25	1.280	0.614	25	1.120	0.440
KARRAS	26	1.538	0.647	25	1.490	0.510	25	1.200	0.408	26	1.462	0.508	26	1.154	0.368
BUKUSU	58	1.310	0.627	60	1.250	0.571	61	1.131	0.465	61	1.459	0.535	61	1.131	0.427
KIAMBU KIKUYU	64	1.313	0.560	64	1.328	0.536	64	1.188	0.432	64	1.484	0.504	64	1.109	0.403
MURANGA KIKUYU	55	1.455	0.603	54	1.185	0.517	55	1.162	0.432	55	1.455	0.538	55	1.182	0.434
NYERI KIKUYU	49	1.367	0.668	48	1.333	0.530	49	1.163	0.553	49	1.327	0.591	49	1.082	0.384
NITIA	56	1.429	0.599	56	1.232	0.539	56	1.089	0.345	56	1.286	0.494	56	1.089	0.345
KANDA	87	1.373	0.588	87	1.237	0.538	87	1.132	0.442	87	1.364	0.484	87	1.158	0.367
EMBU	77	1.425	0.563	77	1.299	0.508	77	1.080	0.348	77	1.241	0.481	77	1.092	0.291
MBERE	63	1.460	0.618	63	1.206	0.626	63	1.127	0.523	63	1.508	0.504	63	1.127	0.336
CHUKA	75	1.453	0.576	75	1.293	0.588	75	1.200	0.435	75	1.400	0.493	75	1.107	0.311
MUTHAMBI	76	1.474	0.553	76	1.342	0.530	76	1.132	0.411	76	1.342	0.478	76	1.184	0.423
MWIMBI	59	1.305	0.500	60	1.217	0.524	60	1.033	0.410	60	1.233	0.500	60	1.050	0.287
IGODJI	76	1.487	0.575	76	1.231	0.523	76	1.077	0.419	75	1.320	0.524	78	1.077	0.352
INENI	61	1.443	0.620	61	1.279	0.552	61	1.115	0.412	61	1.410	0.496	61	1.197	0.401
YIGANIA	64	1.344	0.623	64	1.297	0.609	64	1.047	0.415	64	1.406	0.555	64	1.125	0.333
ICEMBE	65	1.431	0.529	66	1.258	0.506	66	1.106	0.397	65	1.477	0.503	66	1.167	0.376
THANAKA	54	1.407	0.714	54	1.296	0.603	54	1.167	0.505	54	1.333	0.544	54	1.165	0.479
POKIMBO	93	1.333	0.614	93	1.258	0.569	93	1.118	0.439	93	1.376	0.509	93	1.161	0.398
MAKALOTE	40	1.425	0.501	39	1.282	0.605	39	1.179	0.451	39	1.436	0.502	40	1.250	0.439
GIRIAMA	49	1.469	0.680	49	1.327	0.555	49	1.245	0.480	49	1.408	0.497	49	1.061	0.242
CHONYI	79	1.436	0.573	79	1.278	0.598	79	1.038	0.338	79	1.468	0.527	79	1.152	0.361
MWUJI KENDA	32	1.438	0.564	32	1.344	0.602	32	1.250	0.568	32	1.406	0.499	32	1.188	0.397
DIGI	116	1.500	0.620	116	1.388	0.571	116	1.207	0.502	116	1.446	0.533	116	1.138	0.371
TAITA	55	1.273	0.622	55	1.200	0.558	55	1.018	0.360	55	1.309	0.466	55	1.036	0.189
TAUETA	57	1.316	0.659	59	1.237	0.678	59	0.983	0.473	59	1.288	0.589	59	1.017	0.347

Table AP. 1.4.20 : Distribution of finger pattern intensity in Kenyan
minimal ethnic population samples (left hand males).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	224	1.406	0.519	224	1.321	0.539	224	1.188	0.502	224	1.446	0.533	224	1.192	0.406
RENDILLE	152	1.434	0.583	151	1.391	0.588	151	1.212	0.524	152	1.395	0.517	151	1.106	0.368
GABBARA	27	1.296	0.465	27	1.407	0.447	27	1.259	0.447	27	1.333	0.480	27	1.074	0.267
HORAN	127	1.276	0.600	127	1.276	0.636	127	1.150	0.536	127	1.346	0.525	127	1.173	0.420
HURJI	64	1.531	0.563	64	1.391	0.581	64	1.313	0.531	64	1.547	0.532	64	1.266	0.479
SAMBUUO	85	1.341	0.589	85	1.329	0.543	87	1.149	0.471	87	1.379	0.534	87	1.230	0.423
NAOJIAO MAASAI	63	1.270	0.574	63	1.238	0.588	63	1.111	0.479	63	1.429	0.560	63	1.238	0.429
MAKOK MAASAI	36	1.194	0.577	36	1.278	0.659	36	1.083	0.554	36	1.333	0.586	36	1.028	0.291
NEWESI	40	1.425	0.594	40	1.350	0.533	40	1.250	0.494	40	1.475	0.506	40	1.075	0.350
MUKOGODO	38	1.421	0.552	38	1.342	0.627	38	1.184	0.563	38	1.579	0.500	38	1.237	0.490
KONY	37	1.054	0.621	37	1.061	0.547	37	0.892	0.567	37	1.297	0.571	37	1.081	0.433
NANDI	52	1.173	0.474	52	1.308	0.579	52	1.212	0.457	52	1.491	0.542	52	1.115	0.323
KIPSTIGIS	56	1.232	0.603	55	1.309	0.605	55	1.291	0.567	55	1.491	0.605	55	1.200	0.447
TUGEN	108	1.259	0.570	107	1.224	0.520	107	1.140	0.504	108	1.352	0.480	108	1.157	0.366
KEYO	50	1.220	0.507	50	1.280	0.497	49	1.143	0.408	50	1.380	0.530	50	1.120	0.385
MARAKWET	50	1.180	0.560	50	1.350	0.485	50	1.200	0.571	50	1.460	0.503	50	1.160	0.422
PUKOT	45	1.111	0.438	44	1.250	0.534	45	1.067	0.393	44	1.295	0.553	45	1.022	0.260
IFESU	52	1.173	0.585	52	1.115	0.471	52	1.019	0.420	52	1.327	0.513	52	1.173	0.382
TURKANA	66	1.439	0.611	65	1.215	0.649	66	1.061	0.551	66	1.424	0.609	66	1.182	0.426
LUO	170	1.282	0.598	170	1.294	0.529	170	1.182	0.495	170	1.382	0.534	170	1.129	0.370
GUSII	50	1.240	0.565	50	1.260	0.527	50	1.120	0.435	50	1.460	0.503	50	1.140	0.351
TIRIKI	26	1.269	0.667	26	1.154	0.613	26	1.115	0.568	26	1.269	0.533	26	1.115	0.326
MARAGOLI	26	1.231	0.632	26	1.231	0.514	26	1.115	0.516	26	1.308	0.549	26	1.038	0.364
HUNYORE	30	1.333	0.606	28	1.429	0.504	30	1.167	0.379	30	1.408	0.498	30	1.067	0.254
10AKMD	39	1.051	0.560	39	1.194	0.489	39	1.128	0.409	39	1.333	0.478	39	1.077	0.270
MARANA	25	1.280	0.614	25	1.400	0.577	25	1.240	0.523	25	1.560	0.507	25	1.200	0.408
WANGA	25	1.320	0.476	25	1.200	0.500	25	1.040	0.200	25	1.320	0.476	25	1.040	0.351
MAHACH	25	1.160	0.554	25	1.260	0.614	25	1.200	0.577	25	1.360	0.569	25	1.160	0.473
BUKHAYO	23	1.217	0.600	23	1.217	0.600	23	1.000	0.426	23	1.304	0.470	23	1.087	0.417
SANIA	24	1.375	0.647	24	1.250	0.676	24	1.000	0.511	24	1.167	0.381	24	1.083	0.282
BUTSOTSO	20	1.100	0.553	20	1.100	0.308	20	1.100	0.447	20	1.550	0.510	20	1.100	0.308
BUNYALA	26	1.440	0.651	26	1.240	0.523	26	1.080	0.572	26	1.340	0.436	26	1.167	0.361
KABRAS	26	1.423	0.703	26	1.388	0.496	26	1.154	0.464	26	1.308	0.471	26	1.077	0.272
BUKUSU	59	1.203	0.581	61	1.213	0.520	61	1.082	0.468	61	1.344	0.544	61	1.066	0.359
KIAMBU KIKUYU	64	1.313	0.531	64	1.328	0.565	64	1.125	0.549	63	1.413	0.528	64	1.109	0.403
MURANGA KIKUYU	56	1.446	0.601	56	1.357	0.554	56	1.089	0.394	56	1.464	0.538	56	1.143	0.444
NYERI KIKUYU	49	1.224	0.685	49	1.224	0.587	49	1.163	0.590	48	1.375	0.606	49	1.102	0.368
NOTA	56	1.250	0.640	56	1.214	0.624	55	1.145	0.488	55	1.291	0.533	56	1.129	0.439
KAMBA	75	1.373	0.610	77	1.221	0.576	77	1.156	0.540	77	1.403	0.494	76	1.211	0.410
ENBU	87	1.253	0.633	87	1.184	0.561	87	1.057	0.491	87	1.207	0.509	87	1.067	0.279
MBERE	63	1.368	0.604	63	1.286	0.607	63	1.222	0.522	63	1.444	0.532	63	1.127	0.381
CHUKA	75	1.493	0.578	75	1.263	0.496	75	1.227	0.452	75	1.400	0.493	75	1.080	0.273
MUTHAMBI	76	1.421	0.572	75	1.227	0.481	76	1.132	0.472	76	1.368	0.486	76	1.158	0.367
WIMBWI	61	1.328	0.598	60	1.200	0.546	61	1.082	0.493	61	1.262	0.513	61	1.082	0.331
IGODJI	78	1.359	0.602	77	1.299	0.630	78	1.192	0.511	78	1.333	0.526	78	1.090	0.310
IMENTI	61	1.393	0.640	61	1.311	0.620	60	1.117	0.490	61	1.377	0.553	61	1.164	0.373
TIGANIA	64	1.297	0.582	63	1.190	0.535	64	1.016	0.416	64	1.281	0.519	64	1.094	0.344
IGEMBE	65	1.338	0.538	64	1.172	0.490	66	1.197	0.471	66	1.409	0.495	66	1.121	0.329
THARAKA	54	1.444	0.691	53	1.208	0.600	54	1.130	0.478	54	1.315	0.377	54	1.130	0.436
POKOMO	93	1.301	0.622	92	1.263	0.635	93	1.097	0.353	93	1.258	0.509	93	1.108	0.403
MAKADOTE	41	1.341	0.480	41	1.146	0.527	41	1.098	0.436	41	1.244	0.435	41	1.171	0.341
GIRIANA	48	1.438	0.741	48	1.271	0.574	49	1.102	0.421	49	1.347	0.481	49	1.082	0.277
CHONYI	79	1.394	0.621	77	1.195	0.650	79	1.101	0.411	78	1.410	0.545	79	1.127	0.335
MIO MJI KENYA	32	1.469	0.567	32	1.219	0.659	32	1.240	0.508	32	1.406	0.615	32	1.156	0.448
DIGO	116	1.448	0.623	116	1.293	0.560	116	1.216	0.507	116	1.431	0.531	116	1.086	0.338
LAITA	55	1.273	0.560	54	1.074	0.544	55	1.073	0.466	55	1.253	0.440	55	1.018	0.304
TAVETA	57	1.281	0.675	58	1.103	0.552	57	1.018	0.551	59	1.186	0.541	59	0.966	0.414

Table AP. 1.4.21 : Distribution of finger pattern intensity in Kenyan
minimal ethnic population samples (right hand females).

POPULATION	FINGER ONE			FINGER TWO			FINGER THREE			FINGER FOUR			FINGER FIVE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	1.485	0.592	103	1.311	0.524	103	1.126	0.518	103	1.379	0.507	103	1.155	0.390
HENDILLE	45	1.449	0.589	46	1.391	0.577	46	1.261	0.575	46	1.478	0.547	46	1.130	0.341
GABRA	63	1.444	0.532	63	1.190	0.523	63	1.190	0.503	61	1.508	0.516	62	1.210	0.410
HORAN	58	1.155	0.540	58	1.207	0.614	58	1.096	0.506	58	1.224	0.531	58	1.069	0.317
HURJI	57	1.421	0.633	57	1.263	0.642	57	1.088	0.544	57	1.368	0.555	57	1.123	0.466
SAMBUKU	46	1.326	0.560	46	1.227	0.565	45	1.200	0.548	45	1.400	0.539	45	1.200	0.457
KADJADO MAASAI	150	1.527	0.667	149	1.255	0.628	150	1.093	0.595	149	1.282	0.582	150	1.107	0.451
KONY	23	1.000	0.522	23	0.957	0.367	23	1.043	0.367	23	1.391	0.499	23	1.043	0.209
NANDI	50	1.220	0.679	50	1.220	0.648	50	1.160	0.548	50	1.360	0.563	50	1.120	0.435
KIPSIGIS	43	1.279	0.630	43	1.279	0.591	43	1.093	0.570	43	1.326	0.564	43	1.023	0.344
TUGEN	101	1.307	0.561	101	1.168	0.463	101	1.119	0.382	101	1.376	0.507	101	1.109	0.344
KEYO	50	1.220	0.610	50	1.260	0.487	50	1.140	0.452	50	1.400	0.575	50	1.100	0.364
MARAKWET	56	1.107	0.652	56	1.161	0.596	56	1.071	0.499	56	1.429	0.535	56	1.268	0.447
POKOT	53	1.151	0.601	52	1.208	0.565	53	1.151	0.601	53	1.396	0.566	53	1.075	0.474
ITESO	47	1.213	0.587	47	1.298	0.548	47	1.170	0.481	47	1.383	0.573	47	1.043	0.292
TURKANA	42	1.190	0.594	43	1.163	0.574	43	1.116	0.498	43	1.279	0.549	43	1.093	0.426
LUD	107	1.262	0.649	107	1.327	0.563	107	1.178	0.511	107	1.346	0.566	107	1.131	0.391
GUSII	51	1.353	0.658	51	1.235	0.681	51	1.098	0.539	51	1.333	0.554	51	1.176	0.434
TIRIKI	25	1.360	0.490	25	1.280	0.542	25	1.200	0.500	25	1.280	0.542	25	1.080	0.277
MARAGOLI	24	1.458	0.658	24	1.208	0.415	24	1.125	0.448	24	1.333	0.482	24	1.083	0.282
BUNDYRE	20	1.450	0.605	19	1.158	0.501	20	0.850	0.366	20	1.000	0.324	20	1.050	0.224
LOAKHU	15	1.333	0.617	15	1.200	0.561	15	1.067	0.258	15	1.333	0.617	15	1.000	0.378
MARAMA	25	1.320	0.690	25	1.320	0.627	25	1.320	0.597	25	1.320	0.476	25	1.240	0.436
WANGA	24	1.292	0.751	24	1.042	0.624	24	1.000	0.590	24	1.208	0.415	24	1.083	0.282
MARACH	24	1.208	0.658	24	1.375	0.495	24	1.083	0.408	24	1.375	0.495	24	1.125	0.338
HUKAYO	26	1.231	0.514	26	1.192	0.567	26	1.038	0.445	26	1.308	0.549	26	1.154	0.368
SAMIA	26	1.192	0.567	26	1.385	0.637	26	1.154	0.464	26	1.308	0.616	26	1.269	0.452
HUTSISO	27	1.148	0.662	27	1.259	0.594	27	1.158	0.534	27	1.333	0.555	27	1.074	0.385
BUNYALA	25	1.280	0.678	24	1.000	0.511	25	1.040	0.455	25	1.160	0.554	25	1.080	0.400
KABRAS	26	1.077	0.560	26	0.962	0.599	26	0.885	0.516	26	1.115	0.516	26	0.962	0.196
BUKUSU	26	1.269	0.604	29	1.138	0.516	29	1.103	0.489	29	1.103	0.489	28	1.036	0.331
KIAMBU KIKUYU	38	1.211	0.622	38	1.211	0.664	38	1.053	0.517	38	1.289	0.611	38	1.105	0.559
MURANGA KIKUYU	46	1.326	0.598	46	1.109	0.440	46	0.978	0.577	46	1.283	0.544	46	1.000	0.365
NYERI KIKUYU	51	1.235	0.619	51	1.196	0.633	51	1.048	0.500	51	1.314	0.583	51	1.098	0.300
NNDIA	66	1.303	0.607	66	1.242	0.556	66	1.106	0.500	66	1.409	0.526	66	1.136	0.346
KAMBA	42	1.405	0.544	42	1.266	0.554	42	1.143	0.472	42	1.333	0.526	42	1.143	0.354
EMBU	72	1.403	0.643	72	1.292	0.542	72	1.042	0.458	72	1.403	0.573	72	1.097	0.341
MHEHE	65	1.277	0.573	65	1.138	0.556	65	1.000	0.468	64	1.188	0.531	65	1.062	0.348
CHUKA	80	1.353	0.566	59	1.356	0.637	60	1.083	0.561	60	1.363	0.524	59	1.203	0.406
MUTHAMBI	80	1.350	0.597	80	1.262	0.631	80	1.200	0.513	80	1.400	0.493	80	1.162	0.371
WIMBORI	43	1.302	0.678	43	1.372	0.618	43	1.047	0.375	43	1.233	0.527	43	1.114	0.391
IGODJI	95	1.368	0.653	95	1.211	0.667	95	1.084	0.519	95	1.284	0.577	94	1.106	0.427
IMENJI	39	1.308	0.655	39	1.179	0.644	39	1.077	0.532	39	1.282	0.647	39	1.103	0.304
TIGANIA	36	1.206	0.577	36	1.083	0.604	36	1.139	0.543	36	1.250	0.534	36	1.111	0.319
ICEHBE	33	1.212	0.600	33	1.182	0.584	33	0.970	0.394	33	1.303	0.595	33	1.182	0.465
THARAKA	46	1.543	0.622	46	1.196	0.619	46	1.047	0.551	46	1.170	0.572	46	1.130	0.400
POKOMO	90	1.256	0.728	90	1.144	0.646	90	1.100	0.542	90	1.278	0.541	90	1.089	0.386
GIRIAMA	34	1.294	0.760	34	1.235	0.654	35	1.000	0.485	35	1.257	0.443	38	1.079	0.273
CHONYI	13	1.154	0.689	13	1.231	0.599	13	1.154	0.555	13	1.077	0.494	13	1.000	0.408
MID WJI KENYA	27	1.259	0.526	26	1.308	0.517	27	1.037	0.517	27	1.481	0.509	27	1.165	0.396
DIGO	100	1.560	0.656	100	1.500	0.611	100	1.310	0.581	100	1.500	0.541	100	1.100	0.333
TAITA	45	1.422	0.583	45	1.156	0.601	45	1.044	0.367	45	1.333	0.522	45	1.089	0.358
PAVEIA	47	1.333	0.644	46	1.333	0.630	48	1.166	0.607	48	1.292	0.617	48	1.043	0.404

Table AP. 1.4.23 : Distribution of total arches and total loops in Kenyan minimal ethnic population samples (males).

Total Arches

Total Loops

POPULATION	NO	RIGHT HAND					LEFT HAND					RIGHT HAND					LEFT HAND				
		ONE		TWO		FINGER	ONE		TWO		FINGER	ONE		TWO		FINGER	ONE		TWO		FINGER
		%	N	%	N		%	N	%	N		%	N	%	N		%	N	%	N	
SOMALI	224	4.0	2.2	1.3	1.3	0.9	1.3	4.9	5.4	5.4	1.8	0.9	4.9	57.4	77.6	98.0	79.4	56.7	59.4	71.0	51.8
RENDILLE	153	1.3	3.3	3.0	1.3	2.0	4.6	6.0	6.6	1.3	2.6	2.6	48.4	52.1	70.4	48.4	81.2	47.4	49.7	66.9	84.8
GARBA	27	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	49.1	59.6	81.5	50.0	85.2	70.4	59.3	74.1
UDMAN	126	5.5	10.3	4.7	2.4	2.4	7.9	11.0	7.9	2.4	1.6	1.6	128	49.5	58.8	77.2	48.8	81.0	56.7	52.8	69.3
BUNJI	87	1.6	6.3	0.0	0.0	0.0	3.1	3.1	3.1	1.6	1.6	1.6	64	45.3	57.8	78.6	50.0	75.0	40.6	56.3	62.5
SAMBUHU	87	3.4	3.4	3.4	2.3	0.0	0.0	5.9	6.6	2.3	0.0	0.0	87	50.6	65.5	81.6	60.4	80.2	54.1	57.6	75.0
KADJADJO MAASAI	63	4.8	6.3	3.2	0.0	0.0	6.3	7.9	6.3	3.2	0.0	0.0	63	54.0	66.7	74.6	49.2	79.4	60.3	76.2	50.4
NAKOK MAASAI	17	8.6	8.3	8.3	5.6	0.0	8.3	11.1	11.1	5.6	2.8	2.8	37	54.3	55.6	69.4	50.0	86.1	63.9	50.0	69.4
NGWESI	41	2.4	2.4	0.0	0.0	0.0	5.0	2.5	2.5	0.0	2.5	2.5	41	53.7	53.7	77.2	50.0	80.4	47.5	60.0	70.0
MUKOGODO	38	2.6	5.3	5.3	2.6	0.0	2.6	7.9	7.9	0.0	2.6	2.6	38	50.0	59.6	78.3	38.8	83.6	52.5	50.0	65.8
KUNY	37	10.8	13.5	6.1	2.7	5.4	18.2	10.8	21.6	5.4	5.4	5.4	37	70.3	68.4	88.5	82.2	75.7	62.2	70.3	67.6
NANDI	52	1.9	3.8	1.9	1.9	2.0	3.8	5.8	1.9	3.8	0.0	0.0	52	59.6	59.6	75.0	57.7	76.5	57.7	75.0	60.0
KIPSIGIS	57	3.6	5.4	5.4	3.6	1.8	8.9	7.3	5.5	1.8	1.8	1.8	57	58.2	58.2	75.4	42.9	76.8	58.9	54.5	60.0
TUGEN	108	1.9	7.5	5.6	1.9	0.0	6.5	5.6	6.5	0.0	0.0	0.0	108	63.2	59.9	71.4	42.9	76.8	58.9	54.5	60.0
KEYO	50	4.0	2.0	2.0	0.0	2.0	0.0	4.0	2.0	2.0	0.0	0.0	50	68.0	60.0	90.0	54.0	80.0	70.0	66.0	81.6
MAHAMEY	50	2.0	2.0	0.0	0.0	0.0	8.0	0.0	8.0	0.0	0.0	0.0	50	60.0	58.0	82.0	54.0	82.0	66.0	64.0	84.0
POKOT	45	4.4	2.2	4.4	4.4	2.2	4.4	6.8	4.4	4.5	2.2	2.2	45	68.9	57.8	80.0	53.3	84.4	80.0	63.6	84.4
LUKANA	52	7.7	5.8	1.9	3.8	0.0	9.6	5.8	7.7	1.9	3.8	3.8	52	57.7	69.2	88.5	63.5	90.4	63.5	82.7	83.3
TURKANA	170	3.0	2.4	3.5	2.9	0.6	7.6	4.7	6.7	2.4	1.2	1.2	170	53.3	67.6	77.6	58.1	85.6	56.5	62.4	72.4
GUSIT	50	6.0	6.1	2.0	0.0	0.0	0.0	6.0	4.0	0.0	0.0	0.0	50	48.0	63.3	77.6	65.3	79.6	62.0	66.0	80.0
TERIKI	26	11.5	15.4	3.8	3.8	3.8	11.5	15.4	15.4	3.8	0.0	0.0	26	38.5	42.3	76.9	65.3	79.6	62.0	66.0	80.0
MAKADOLI	26	11.5	15.4	3.8	3.8	3.8	11.5	15.4	15.4	3.8	0.0	0.0	26	38.5	42.3	76.9	65.3	79.6	62.0	66.0	80.0
BUNYED	30	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	56.7	53.3	70.0	48.3	83.3	53.3	57.1	83.3
TOAKHO	39	5.1	2.6	0.0	0.0	0.0	12.6	5.1	2.6	0.0	0.0	0.0	39	69.2	61.1	82.1	61.1	92.3	69.2	74.4	82.3
MARANA	25	4.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	25	44.0	48.0	60.0	32.0	76.0	56.0	52.0	68.0
MANGA	25	4.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	25	44.0	48.0	60.0	32.0	76.0	56.0	52.0	68.0
MARACH	25	4.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	25	44.0	48.0	60.0	32.0	76.0	56.0	52.0	68.0
RIKHAJO	23	9.1	4.5	9.1	4.5	0.0	8.0	8.0	8.0	0.0	0.0	0.0	23	59.1	68.2	86.4	48.0	80.0	68.0	60.0	64.0
SAMIA	24	8.3	12.5	12.5	0.0	4.2	6.3	16.7	12.5	0.0	4.3	4.3	24	37.5	54.2	70.8	58.3	83.3	45.8	60.0	85.0
BUDSOTO	20	0.0	0.0	0.0	0.0	0.0	10.0	0.0	5.0	0.0	0.0	0.0	20	55.0	65.0	80.0	43.0	80.0	70.0	90.0	80.0
BUNYALA	25	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	44.0	48.0	60.0	32.0	76.0	56.0	52.0	68.0
KARRAS	26	7.7	0.0	0.0	0.0	0.0	11.5	0.0	7.7	0.0	0.0	0.0	26	30.6	52.0	80.0	53.8	84.6	61.5	73.1	69.2
BUKUSU	61	8.6	6.7	4.9	1.6	3.3	6.5	4.9	6.2	3.3	3.3	3.3	61	51.7	61.7	77.0	50.6	80.3	62.7	68.9	77.0
KIAMBUS KIKUYU	65	4.7	3.1	1.6	0.0	0.0	3.1	6.3	9.4	1.6	1.6	1.6	65	59.4	60.9	78.1	51.6	82.8	62.5	56.3	68.8
MURANGA KIKUYU	56	5.5	5.6	1.6	1.6	1.6	5.4	5.4	5.4	1.6	1.6	1.6	56	43.6	70.4	78.2	50.9	78.2	44.6	55.4	62.1
NYERI KIKUYU	49	10.2	6.7	6.7	3.3	1.7	6.6	10.0	8.2	3.3	1.6	1.6	49	42.9	50.0	60.3	53.1	87.8	49.0	57.1	65.3
NDIA	56	5.4	5.4	1.8	1.8	1.8	10.7	12.5	5.5	3.6	3.6	3.6	56	46.4	66.1	87.5	67.9	88.2	53.6	55.4	74.5
KAMIA	78	5.3	6.6	3.9	0.0	0.0	6.7	7.8	9.1	0.0	0.0	0.0	78	52.0	64.5	78.9	63.6	88.2	49.3	62.3	75.0
EMBU	87	3.4	2.3	2.3	2.3	0.0	0.0	8.0	9.2	5.7	1.1	1.1	87	50.6	65.5	87.4	71.3	90.8	54.0	67.0	75.0
MWEE	87	3.4	2.3	2.3	2.3	0.0	0.0	8.0	9.2	5.7	1.1	1.1	87	50.6	65.5	87.4	71.3	90.8	54.0	67.0	75.0
CHIKIA	75	4.0	8.0	1.1	0.0	0.0	0.0	6.3	9.5	4.8	1.6	1.6	75	46.7	56.0	77.3	68.0	88.3	42.7	69.3	74.7
MUTHAMBI	76	2.6	3.9	3.9	0.0	1.3	3.9	6.7	6.6	0.0	0.0	0.0	76	47.4	59.2	80.3	63.6	78.9	50.0	68.0	75.0
MWEMBI	62	1.7	5.0	6.7	3.3	1.7	6.6	10.0	8.2	3.3	1.6	1.6	62	66.1	68.3	83.3	70.0	91.7	54.1	63.3	75.4
IGOTI	78	3.8	6.6	5.1	2.7	2.6	6.4	7.8	5.1	3.8	1.3	1.3	78	61.6	65.4	82.1	62.7	87.2	51.3	55.8	70.5
IMENIT	61	0.6	4.9	3.3	0.0	0.0	0.0	8.2	6.7	3.3	0.0	0.0	61	42.6	62.3	82.0	59.0	80.3	44.3	52.5	75.0
TIGANIA	64	7.8	6.7	6.7	3.1	0.0	6.3	6.3	7.8	3.1	1.6	1.6	64	50.0	59.4	82.8	53.1	87.5	57.8	68.3	82.4
EGEMBE	66	1.5	4.5	3.0	0.0	0.0	0.0	3.1	3.0	0.0	0.0	0.0	66	53.8	66.7	83.3	52.3	83.3	50.0	71.8	74.2
THAKA	54	13.0	7.4	5.6	3.7	3.7	11.1	9.4	5.6	3.6	0.0	0.0	54	33.3	55.6	78.2	59.3	83.3	60.4	75.9	87.4
THAKA	114	7.5	6.5	4.3	2.6	0.0	1.1	6.6	9.8	9.7	3.2	3.2	114	51.6	61.3	79.6	65.2	81.7	52.7	54.3	72.0
MAKADIE	41	0.0	10.3	2.6	0.0	0.0	0.0	7.3	4.9	0.0	0.0	0.0	41	37.5	53.8	78.9	56.4	75.0	65.9	70.7	80.5
GIRIAMA	64	10.2	4.1	2.0	0.0	0.0	0.0	14.6	6.3	4.1	0.0	0.0	64	32.7	59.2	71.4	49.2	83.9	27.1	58.3	71.8
CHONYI	79	3.4	7.6	3.4	1.3	0.0	7.6	13.0	3.8	2.6	0.0	0.0	79	46.8	57.0	88.6	50.6	84.8	49.4	54.5	82.1
MUO MJI KENYA	32	3.1	6.3	6.3	0.0	0.0	0.0	3.1	12.5	6.3	3.1	3.1	32	50.0	53.1	62.5	50.4	81.3	46.9	53.1	62.5
DIGO	116	6.9	5.2	4.3	1.7	0.9	4.9	5.2	4.3	1.7	1.7	1.7	116	36.2	51.7	70.7	51.7	80.5	41.4	62.1	69.4
TAITA	55	0.1	7.3	5.5	0.0	0.0	5.5	13.0	7.3	0.0	0.0	0.0	55	54.5	65.5	87.3	61.1	90.4	61.8	68.5	74.5
TAVETA	59	10.5	13.6	11.9	6.4	5.1	12.3	10.3	14.0	6.4	10.2	10.2	59	47.4	49.2	79.0	57.6	88.1	47.4	69.0	70.2

Table AP. 1.4.25 : Distribution of total whorls and ulnar loops in Kenyan minimal ethnic population samples (males).

Total Whorls

Ulnar Loops

POPULATION	NH	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
SOMALI	224	52.0	40.4	21.1	50.2	19.7	42.0	35.7	23.7	46.4	19.6	224	43.5	53.4	78.5	79.0
HENDILLE	153	50.3	49.4	25.7	52.3	14.8	48.0	44.4	26.5	40.8	12.6	153	47.7	46.4	46.4	56.6
GABRA	27	48.1	40.7	18.5	50.0	14.8	29.6	40.7	25.9	33.3	7.4	27	48.1	55.6	50.0	92.6
ADHAN	128	48.0	38.9	18.1	48.8	16.7	35.4	36.2	22.8	37.0	18.9	128	45.7	51.6	48.0	70.5
HUNJA	64	53.1	35.9	23.4	50.0	25.0	56.3	40.6	38.4	58.3	28.1	64	45.3	51.1	50.0	77.0
SAMBUJILI	47	48.0	37.0	14.9	37.2	14.8	40.0	39.5	19.5	40.2	23.0	47	50.6	59.8	68.2	77.0
KADJIRADO MAASAI	63	41.4	27.0	22.2	50.8	20.6	33.3	31.7	17.5	46.0	23.0	63	52.4	60.3	59.3	76.2
MAJUK MAASAI	37	37.1	30.1	22.2	44.4	13.9	27.8	38.9	19.4	38.9	5.6	37	54.3	55.6	69.4	91.7
NWGESI	41	43.9	43.9	26.8	41.5	14.6	47.5	37.5	27.5	47.5	10.0	41	53.7	43.9	73.2	87.5
MUKIGODDO	39	47.4	55.3	18.4	60.5	18.4	44.7	42.1	26.3	57.9	26.3	39	70.3	59.5	63.6	89.4
KUNY	37	18.0	21.0	5.4	36.1	18.9	21.6	18.9	10.8	35.1	13.5	37	70.3	59.5	63.6	89.4
NANDI	52	38.5	30.5	23.1	40.4	21.0	21.2	36.5	23.1	50.0	11.5	52	59.6	57.7	75.0	75.7
KIPSIGIS	57	34.2	35.7	23.2	53.6	21.4	32.1	39.2	24.5	54.5	21.0	57	56.4	53.6	71.4	80.4
TUGEN	104	34.9	32.7	15.9	38.3	15.0	32.4	27.1	20.6	35.2	15.7	104	62.3	52.3	77.6	82.0
KEYO	50	28.0	38.0	8.0	48.0	18.0	26.0	30.0	10.3	40.0	14.0	50	68.0	56.0	90.0	84.0
MARAKPET	50	38.0	40.0	18.0	48.0	18.0	26.0	30.0	10.3	40.0	14.0	50	68.0	56.0	90.0	84.0
POKOT	45	26.7	40.0	15.6	42.2	13.3	15.6	29.5	11.1	34.1	4.4	45	68.9	57.8	80.0	84.4
ITESO	52	48.6	25.0	9.6	32.7	9.6	26.9	17.3	9.6	34.6	17.3	52	55.8	59.6	82.7	82.7
TURKANA	66	57.6	41.5	22.7	59.1	23.0	50.0	33.6	18.2	48.6	19.7	66	36.4	43.1	68.2	77.1
LUO	170	43.8	30.0	18.6	42.9	13.8	35.9	32.9	22.9	40.6	14.1	170	52.1	61.8	77.1	84.7
GUSII	50	48.0	30.0	20.4	34.7	20.4	32.0	30.0	16.0	46.0	14.0	50	48.0	51.0	77.6	86.0
THIKI	26	50.0	42.3	19.2	42.3	15.8	38.5	26.9	23.1	30.8	11.5	26	38.5	38.5	76.9	86.5
MARAGOLI	26	34.6	19.2	11.5	38.5	11.5	34.6	26.9	19.2	34.6	7.7	26	53.8	65.4	84.6	89.5
HUNYERE	30	43.3	43.3	30.0	51.7	16.7	40.0	42.9	16.7	40.0	6.7	30	56.7	60.0	80.0	93.3
IDAKHU	39	25.6	33.3	17.0	35.9	7.7	17.9	20.5	15.4	33.3	7.7	39	69.2	64.1	82.1	82.1
MARANA	25	52.0	60.0	35.0	60.0	20.0	36.0	44.0	28.0	50.0	20.0	25	44.0	36.0	60.0	80.0
WANGA	25	32.0	28.0	0.0	48.0	9.0	32.0	24.0	4.0	32.0	6.0	25	64.0	52.0	96.0	80.0
MAWACH	25	28.0	68.0	28.0	52.0	16.0	24.0	36.0	28.0	40.0	20.0	25	68.0	60.0	80.0	80.0
HUKHAYO	23	31.8	27.3	9.5	27.3	9.1	30.4	30.4	6.7	30.4	13.0	23	59.1	59.1	86.4	78.3
SAMIA	24	54.2	33.3	18.7	41.7	12.5	45.8	37.5	12.5	16.7	8.3	24	37.5	45.8	70.8	91.7
HUTSOTSI	20	45.0	35.0	20.0	55.0	20.0	50.0	10.0	15.0	50.0	10.0	20	55.0	60.0	80.0	90.0
BUNYALA	25	56.0	24.0	16.0	38.0	18.0	52.0	28.0	20.0	24.0	16.7	25	40.0	52.0	72.0	83.3
KABRAS	26	61.5	48.0	20.0	46.2	13.4	53.8	38.5	19.2	30.8	7.7	26	26.9	44.0	60.0	80.0
KIKUSU	61	39.7	31.7	18.0	47.5	16.4	28.6	26.2	14.8	37.7	9.8	61	51.7	60.0	77.0	82.3
KIAMHU KIKUYU	65	35.9	35.9	20.3	46.4	14.1	34.4	37.5	21.9	42.9	14.1	65	59.4	59.4	76.1	86.9
MUKANGA KIKUYU	56	50.9	24.1	20.0	47.3	20.0	50.0	39.3	12.6	46.2	17.0	56	41.8	59.3	76.4	82.8
NYERI KIKUYU	49	40.9	41.7	24.5	38.8	10.2	36.7	30.6	22.4	43.8	12.2	49	42.9	45.8	67.3	75.0
NOLIA	56	48.2	28.6	10.7	30.4	10.7	35.7	32.1	20.0	32.7	16.1	56	46.4	56.9	87.5	87.5
KANBA	78	42.7	24.9	17.1	36.4	13.6	44.0	29.9	23.4	40.3	21.1	78	52.0	53.9	78.9	86.4
EMBU	47	46.0	32.2	10.3	26.4	9.2	36.6	24.1	14.9	26.3	6.9	47	48.3	60.9	87.4	91.7
MBERE	64	52.4	31.7	20.6	50.8	12.7	42.9	36.5	27.0	40.0	14.3	64	41.3	50.8	71.4	86.9
CHUKA	75	49.3	36.0	21.3	40.0	10.7	53.3	28.0	24.0	40.0	8.0	75	46.7	46.7	73.3	82.0
MUTHAMBI	76	50.0	36.8	15.8	34.2	19.7	46.1	25.3	18.4	39.8	15.8	76	46.1	46.7	80.3	84.2
MWIMBI	62	32.2	26.7	10.0	26.7	6.7	39.3	26.7	16.4	29.5	9.8	62	66.1	63.1	80.0	85.0
ICUJI	78	52.6	28.2	12.8	34.7	10.3	42.3	36.4	24.4	35.9	10.3	78	43.6	59.0	79.5	86.5
IMENI	61	50.8	32.6	14.6	41.0	19.7	47.5	30.3	18.3	41.0	16.4	61	42.6	53.7	82.0	86.5
TIGANIA	64	42.2	34.4	10.9	43.8	12.5	35.9	25.4	9.4	31.3	16.9	64	50.0	50.0	82.8	86.5
IGEMBE	66	44.6	28.8	13.6	47.7	16.7	36.9	21.9	22.7	40.9	12.1	66	53.8	57.6	83.3	87.9
THARAKA	54	53.7	37.0	22.2	37.0	22.2	55.6	30.2	18.5	37.0	16.7	54	33.3	46.3	72.2	82.0
PUKODU	114	40.9	32.3	16.1	38.7	17.2	38.7	35.9	18.3	29.0	14.1	114	50.5	53.0	78.5	82.8
MAKODI	41	42.5	35.9	20.5	43.6	20.0	34.1	22.0	14.6	24.4	17.1	41	57.5	51.3	76.9	82.9
GIRIANA	64	57.1	36.7	26.5	40.8	6.1	58.3	33.3	14.3	34.7	8.2	64	28.6	51.0	69.4	82.9
CHUMBI	79	49.4	35.4	7.6	40.1	1.2	42.0	32.5	13.9	43.8	12.7	79	45.6	46.8	88.6	87.3
MED MJI KENYA	32	46.9	40.6	31.3	45.6	19.6	50.6	34.4	31.3	46.9	18.8	32	50.0	50.0	62.5	66.9
DIGO	116	56.9	43.1	25.0	45.6	14.7	51.7	32.8	25.9	44.8	10.3	116	36.2	47.4	70.7	87.1
TAITA	35	36.4	27.3	7.3	30.9	3.6	32.7	18.5	14.5	25.5	5.5	35	54.5	61.8	85.5	90.9
IAVETA	59	42.1	17.1	10.2	35.6	6.8	40.4	20.7	15.6	25.4	6.8	59	47.4	44.1	76.3	83.1

Table AP. 1.4.26 : Distribution of total whorls and ulnar loops in Kenyan minimal ethnic population samples (females).

Ulnar Loops

Total Whorls

POPULATION	NO	RIGHT HAND					LEFT HAND					FINGER					RIGHT HAND					LEFT HAND					FINGER					RIGHT HAND					LEFT HAND				
		FINGER					FINGER					FINGER					FINGER					FINGER					FINGER					FINGER					FINGER				
		ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE										
SOMALI	103	45.6	34.0	16.5	38.8	19.4	53.4	34.0	20.4	38.6	16.5	103	50.5	58.3	81.6	59.2	78.6	41.7	61.2	71.8	60.2	82.5																			
RENDILLE	46	53.1	22.7	14.0	52.3	13.3	53.3	43.5	32.6	50.0	13.0	46	66.7	65.9	83.7	47.7	68.2	42.2	43.5	58.7	45.7	87.0																			
GABRA	63	42.9	38.7	19.4	47.0	20.6	40.0	40.3	23.8	52.5	21.0	61	57.1	54.5	79.0	52.4	79.4	52.4	48.4	68.1	45.9	79.0																			
BARBAR	60	35.1	31.6	12.3	41.4	7.0	25.9	31.0	17.2	27.6	8.6	50	58.1	52.6	70.9	75.0	91.2	63.6	48.4	72.4	67.2	87.9																			
HURJI	57	46.4	28.1	14.3	40.4	14.0	50.9	36.8	19.5	40.4	17.5	57	48.2	52.6	60.4	56.1	82.5	38.6	40.4	70.2	54.4	77.2																			
SAMBUURU	46	40.4	29.5	15.9	38.6	11.4	37.0	29.5	26.7	42.2	22.2	46	50.8	63.6	70.5	61.4	86.4	56.5	52.3	60.7	56.4	77.3																			
KADJADU MAASAI	150	41.3	36.0	12.7	33.3	15.3	36.0	35.6	22.7	34.9	16.0	150	53.3	54.0	80.0	60.7	90.0	50.0	44.3	60.7	56.4	77.3																			
KUNY	23	13.0	13.0	8.7	30.4	8.7	13.0	4.3	8.7	39.1	4.3	23	69.6	78.3	87.0	65.2	91.3	73.9	69.6	87.0	60.9	95.7																			
MANDI	50	32.0	32.0	10.0	30.0	10.0	30.0	34.0	24.0	40.0	10.0	50	56.0	60.0	84.0	60.0	82.0	50.0	46.0	66.0	52.0	80.0																			
KIP-SIGIS	43	32.6	30.2	14.0	32.8	7.0	37.2	34.9	20.9	37.2	7.0	43	58.1	58.1	79.1	60.5	90.7	53.5	58.1	67.4	58.1	60.0																			
EUGEN	102	38.2	21.6	9.8	35.3	4.9	35.6	21.8	13.9	38.6	11.9	102	55.8	71.6	88.2	62.7	95.1	59.4	61.4	79.2	57.4	85.1																			
KEYO	50	24.0	20.0	4.0	30.0	4.0	32.0	26.0	18.0	42.0	12.0	50	68.0	74.0	90.0	68.0	94.0	58.0	52.0	74.0	54.0	86.0																			
MAHAKET	56	26.8	17.9	10.7	41.1	16.1	26.8	26.8	16.1	44.0	12.0	56	64.0	64.0	80.4	53.6	83.9	57.1	53.6	71.4	51.8	71.4																			
POKOT	54	22.6	32.1	15.1	36.5	13.2	26.4	36.5	26.4	43.4	15.1	54	71.7	65.0	80.4	53.6	83.9	57.1	53.6	71.4	51.8	71.4																			
IFESO	47	44.7	31.9	21.3	31.9	6.4	29.8	34.0	21.3	42.6	6.4	47	51.1	51.1	78.3	63.6	91.5	48.9	48.9	72.3	51.1	91.5																			
TURKANA	43	30.2	23.8	19.0	40.5	9.3	28.6	25.6	18.6	32.6	14.0	43	62.8	64.7	70.2	57.1	88.4	57.1	53.5	74.4	60.5	79.1																			
LUDU	107	29.0	34.6	20.6	40.2	16.8	37.4	37.4	23.4	39.3	15.0	107	44.5	58.9	75.7	54.2	80.4	50.5	49.5	71.0	55.1	83.2																			
GUSII	51	45.1	33.3	15.7	30.8	11.8	45.1	37.3	19.6	37.3	19.6	51	52.9	59.9	78.5	68.0	86.3	43.1	35.3	66.7	54.9	78.4																			
TIRIKI	24	25.0	40.0	12.0	32.0	12.0	36.0	32.0	24.0	32.0	6.0	24	58.3	44.0	84.0	68.0	86.0	56.0	40.0	64.0	64.0	92.0																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.7	25.0	0.0	45.8	20.8	16.7	20.8	6.3	24	50.0	50.0	75.0	70.8	100.0	37.5	45.8	52.5	75.0	91.7																			
MAHAGOLI	24	37.5	29.2	16.																																					

Table AP. 1.4.27 : Distribution of concentric whorls and double loops in Kenyan minimal ethnic population samples (males).

Concentric Whorls												Double Loops											
		RIGHT HAND			FINGER			LEFT HAND			RIGHT HAND			FINGER			LEFT HAND						
		ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		
POPULATION	NO	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE	ONE	TWO	THREE	FOUR	FIVE		
SOMALI	224	34.1	26.0	16.1	42.2	11.2	19.2	22.8	14.7	34.4	10.7	22.4	16.1	9.0	3.1	2.7	2.2	21.0	8.0	5.8	7.1	4.9	
RENDILLE	153	20.4	31.4	13.2	33.6	10.1	35.5	28.5	17.9	30.3	7.3	15.3	19.0	9.8	4.6	6.0	2.0	11.8	11.9	2.6	7.9	3.3	
GABBARA	27	18.5	29.6	11.1	26.9	7.4	14.8	22.2	14.6	23.2	3.7	2.7	25.0	7.4	3.7	3.0	3.7	11.1	11.1	7.4	0.0	0.0	
MURAN	124	20.5	24.6	15.0	29.9	6.7	15.7	22.0	10.5	24.4	9.4	12.8	26.0	7.1	1.6	9.4	4.8	19.7	11.0	4.7	7.1	5.9	
MURJI	64	18.4	17.2	20.3	35.3	17.2	18.6	21.9	25.0	42.2	18.8	0.7	20.7	10.9	1.6	4.7	35.0	16.7	11.0	7.8	6.3	6.3	
SAMBURU	87	24.8	17.2	11.5	27.9	12.8	23.5	25.9	6.0	29.9	12.6	0.7	19.5	10.3	2.3	2.3	1.2	15.3	5.9	3.4	6.7	2.3	
KADJIAOU NAASAI	61	14.3	22.2	12.7	42.9	11.1	9.5	22.2	14.3	30.7	12.7	6.3	27.0	3.2	1.6	1.6	4.8	23.6	6.3	3.2	0.0	4.8	
NAROK NAASAI	37	11.4	22.2	19.4	27.8	2.8	11.1	25.0	19.4	30.6	2.8	3.7	22.9	5.6	2.8	5.6	11.1	10.7	5.6	0.0	2.8		
MUKOGODO	41	22.0	26.8	14.6	31.7	4.9	20.0	22.5	17.5	32.5	7.5	4.1	22.0	14.6	7.3	2.4	4.9	25.0	10.0	7.5	7.5	2.5	
KONY	37	4.1	18.9	5.4	24.3	5.4	5.4	13.5	5.4	27.0	8.1	3.7	8.1	2.7	0.0	2.7	2.7	16.2	5.4	5.4	0.0	0.0	
NANDI	52	9.0	11.5	15.4	26.4	9.4	9.4	23.1	15.4	34.6	7.7	5.2	26.8	21.2	5.8	5.8	3.9	11.5	11.5	1.9	1.9	1.9	
KIOSIGIS	57	14.5	30.4	12.5	41.1	7.1	17.9	21.6	20.0	41.8	7.3	3.7	21.8	5.4	3.6	3.6	8.9	16.3	10.9	7.3	3.6	7.3	
TUGEN	108	9.4	19.6	8.4	31.8	6.5	11.1	15.0	19.9	28.7	6.5	1.0	24.5	11.2	5.6	0.9	4.7	21.3	11.2	2.4	3.7	3.7	
KEYO	50	14.0	18.0	8.0	32.0	4.0	10.0	18.0	14.3	30.0	10.0	5.0	12.0	12.0	0.0	6.0	2.0	16.0	6.0	0.0	0.0	0.0	
MARAKWET	50	20.0	22.0	8.0	30.0	12.0	16.0	26.0	20.0	36.0	6.0	5.0	16.0	12.0	4.0	4.0	4.0	10.0	2.0	2.0	2.0	2.0	
PUKOT	45	4.4	24.4	13.3	31.1	8.9	2.2	20.5	8.9	13.6	2.2	4.5	22.2	15.6	2.2	2.2	0.0	13.3	9.1	2.2	9.1	0.0	
ITYESO	52	13.4	17.3	5.8	19.2	5.8	13.5	9.6	9.6	21.2	7.7	5.2	19.2	1.9	1.9	3.6	0.0	11.5	5.8	1.9	3.8	5.8	
TURKANA	66	25.8	29.2	16.2	45.5	10.9	13.6	24.6	18.2	34.6	10.6	0.6	30.3	9.2	3.0	4.5	9.4	34.8	9.2	0.0	4.5	3.0	
LHO	170	14.2	15.9	12.4	31.2	9.4	6.2	13.6	18.2	13.5	23.6	6.2	1.0	20.0	10.0	2.0	3.5	0.6	22.4	10.0	6.5	5.1	
GUSII	50	12.0	22.4	10.2	24.5	8.2	10.0	18.0	14.0	30.0	6.0	3.0	34.0	8.2	6.1	6.1	0.2	22.0	10.0	2.0	10.0	4.0	
TIRIKI	26	11.5	15.4	11.5	23.1	3.8	19.2	11.5	15.4	11.5	0.0	2.6	34.6	23.1	3.8	11.5	7.7	19.2	15.4	7.7	15.4	3.8	
MARAGOLI	26	19.2	19.2	11.5	30.4	0.0	15.4	15.4	15.4	34.6	3.8	2.6	11.5	0.0	0.0	0.0	3.8	19.2	11.5	3.8	0.0	3.8	
RUMYORE	30	23.3	30.0	13.3	37.9	3.3	20.0	17.9	10.0	23.3	6.7	3.0	16.7	10.0	10.0	0.0	6.9	20.0	17.9	6.7	6.7	0.0	
IDAKHO	39	5.1	12.8	10.3	20.5	5.1	5.1	17.9	17.9	0.0	16.0	0.0	39	20.5	15.4	7.7	5.1	2.6	12.8	15.4	7.7	12.8	
MARANA	25	24.0	32.0	26.0	56.0	8.0	4.0	40.0	24.0	48.0	16.0	2.5	24.0	16.0	4.0	4.0	0.0	32.0	4.0	4.0	4.0	4.0	
WANJA	25	16.0	16.0	0.0	12.0	0.0	8.0	12.0	0.0	20.0	4.0	2.5	16.0	12.0	0.0	0.0	0.0	20.0	8.0	0.0	4.0	4.0	
MARACH	25	16.0	28.0	20.0	32.0	16.0	0.0	28.0	16.0	20.0	4.0	4.0	12.0	12.0	4.0	8.0	0.0	20.0	8.0	0.0	4.0	4.0	
BUKHAYO	23	14.2	27.3	4.5	18.2	0.0	8.7	26.1	4.3	17.4	9.7	3.0	33.3	16.7	6.3	16.7	4.2	25.0	20.4	4.2	4.7	4.7	
SAMIA	24	20.8	12.5	4.2	6.3	4.2	20.8	6.3	4.2	6.3	0.0	2.4	33.3	16.7	6.3	16.7	4.2	25.0	20.4	4.2	4.7	4.7	
RUTSOTSO	26	20.0	10.0	15.0	30.0	0.0	0.0	0.0	15.0	40.0	5.0	2.0	25.0	10.0	5.0	5.0	5.0	20.0	4.0	0.0	5.0	0.0	
RUMYALA	24	32.0	20.0	16.0	28.0	0.0	36.0	20.0	12.0	20.0	8.3	0.0	25.0	10.0	0.0	0.0	4.0	16.0	4.0	0.0	0.0	0.0	
KARAS	26	34.5	26.0	20.0	36.5	3.8	11.5	11.5	19.2	19.2	0.0	2.6	23.1	16.0	0.0	0.0	11.5	36.5	15.4	0.0	11.5	3.6	
KUKUSU	61	19.0	16.7	6.2	19.7	6.6	8.5	25.0	12.5	31.7	9.4	6.5	15.5	10.0	4.9	11.5	4.9	29.3	8.2	3.3	0.5	0.5	
KIAUSU KIKUYU	65	17.2	23.4	15.6	26.6	6.3	9.4	25.0	12.5	31.7	9.4	6.5	18.8	9.4	1.6	14.1	3.1	25.0	10.9	4.7	4.8	4.8	
MURANGA KIKUYU	56	14.2	13.0	14.5	30.9	9.1	10.7	19.6	7.1	32.1	10.2	8.9	32.7	11.1	3.6	7.3	5.5	37.5	16.1	3.6	10.7	7.1	
NYERI KIKUYU	49	22.4	22.9	10.2	30.6	4.1	6.1	16.3	12.2	31.3	10.2	4.9	22.4	16.7	6.1	6.1	2.0	30.6	10.2	0.1	6.3	2.0	
NDIA	56	17.9	17.9	5.4	17.9	0.0	12.5	17.9	10.9	29.1	3.6	5.6	24.6	7.1	3.6	5.4	5.4	23.2	7.1	7.3	3.6	5.4	
KAMBA	74	12.0	10.5	13.2	22.1	7.9	12.0	14.3	15.6	19.5	13.2	7.8	30.7	11.4	2.6	10.4	2.6	32.0	13.0	7.4	14.3	5.1	
EMBU	87	10.3	17.2	4.6	17.2	2.3	8.0	6.9	4.6	12.6	1.1	6.7	34.5	13.8	5.7	8.0	3.4	26.4	13.8	9.2	9.2	9.2	
MNERE	64	27.0	19.0	11.1	36.5	7.9	12.7	22.2	12.7	30.2	4.6	6.4	34.6	11.1	7.9	7.9	4.8	30.2	14.3	12.7	11.1	6.3	
CHUKA	75	13.1	25.3	16.0	29.3	4.0	12.0	14.7	21.9	21.9	2.7	7.5	34.7	6.7	4.0	6.7	2.7	41.3	8.0	5.3	12.0	1.3	
MUTHAMBI	76	21.1	18.4	9.2	27.6	10.5	13.2	12.0	10.5	19.7	6.6	7.6	27.6	13.2	6.6	2.6	3.9	32.9	9.3	5.3	7.9	6.6	
MWINBI	62	16.9	13.3	5.0	16.7	5.0	9.6	21.7	8.2	18.0	3.3	6.2	13.6	11.7	5.0	3.3	1.7	29.5	5.0	4.9	9.8	6.6	
IGOTI	74	21.1	16.7	7.7	22.7	5.1	11.5	18.2	16.7	28.2	5.1	7.8	29.5	10.3	9.1	5.3	2.6	29.5	11.7	5.1	5.1	5.1	
IMENTI	61	23.0	21.3	6.6	31.1	8.2	16.4	23.0	13.3	26.2	8.2	6.1	24.6	8.2	8.9	4.9	4.9	31.1	13.1	3.3	6.6	4.9	
TIGANIA	64	14.1	20.3	9.4	31.3	3.1	12.5	12.7	6.3	26.6	7.8	6.4	24.0	10.9	0.0	4.7	3.1	23.4	9.5	3.1	1.6	1.6	
IGENNE	66	7.1	14.2	6.1	36.9	7.6	16.7	11.3	14.8	24.1	9.3	5.6	33.3	9.3	5.6	3.7	9.3	38.9	17.0	3.7	7.4	5.6	
UJARAKA	54	20.4	24.1	14.8	29.6	3.7	16.7	11.3	14.8	24.1	9.3	5.6	33.3	9.3	5.6	3.7	9.3	38.9	17.0	3.7	7.4	5.6	
PAKODMO	114	18.0	20.4	7.9	29.0	9.7	6.5	20.7	12.9	22.6	6.5	11.4	29.0	7.5	5.4	4.3	2.2	30.1	13.0	3.2	4.9	9.8	
MALAKOTE	41	7.5	17.9	20.5	30.8	10.0	7.3	4.9	9.8	17.1	4.9	4.1	30.0	17.9	9.0	10.3	12.5	24.4	17.1	4.9	9.8		
GERTAMA	64	24.6	16.3	12.2	24.5	2.0	6.3	10.4	8.2	16.3	2.0	6.4	26.5	16.3	8.2	8.2	2.0	50.0	22.9	4.1	12.2	4.1	
C-DONYI	79	19.0	17.7	7.6	27.6	3.5	15.2	19.5	6.9	29.5	2.5	9.2	29.1	8.9	0.0	7.6	3.8	24.1	6.5	3.8	6.4	7.6	
MID-MJI KENOA	32	24.1	18.4	15.6	25.0	3.1	18.6	19.6	15.6	21.9	9.4	3.5	18.8	15.6	9.4	12.5	3.1	31.3	18.8	12.5	15.6	3.1	
DIGO	116	23.0	25.0	19.0	34.5	8.6	12.1	19.0	21.6	24.1	5.2	11.6	31.0	14.6	4.3	6.0	3.4	37.9	11.2	4.3	12.9	3.4	
TALIA	55	17.7	21.8	5.5	23.6	1.6	10.9	13.0	10.9	20.1	1.8	5.5	18.2	5.5	0.0	3.6	1.8	16.2	5.6	3.6	1.3	1.8	
TAVERA	54	14.0	25.4	7.4	20.3	3.4	14.0	6.6	7.0	11.6	0.0	5.9	26.1	11.9									

Table AP. 1.4.28 : Distribution of concentric whorls and double loops in Kenyan minimal ethnic population samples (females).

POPULATION		Concentric Whorls										Double Loops												
		RIGHT HAND					LEFT HAND					RIGHT HAND					LEFT HAND							
		ONE	TWO	THREE	FOUR	FIVE	FINGER	ONE	TWO	THREE	FOUR	FIVE	FINGER	ONE	TWO	THREE	FOUR	FIVE	FINGER	ONE	TWO	THREE	FOUR	FIVE
NO		%	%	%	%	%	%	%	%	%	%	NO		%	%	%	%	%	%	%	%	%	%	%
103	SOMALI	30.1	19.4	8.7	26.2	11.7	24.3	14.0	16.5	25.2	6.7	103	13.6	10.7	1.9	4.9	1.9	26.2	16.5	1.9	0.8	1.0	0.8	1.0
46	RENTILLE	26.7	18.2	7.0	38.6	2.2	28.9	30.4	23.9	37.0	6.5	46	22.2	4.5	4.7	4.5	2.2	17.8	2.2	4.3	4.3	2.2	2.2	2.2
63	GABRA	22.2	21.0	14.3	38.1	7.9	25.4	25.8	19.0	34.4	17.7	63	19.0	11.3	1.6	6.3	1.6	19.0	12.9	4.8	3.3	0.0	3.3	0.0
60	BORAN	15.8	24.6	8.6	17.9	3.5	8.6	24.1	13.6	17.2	3.4	60	17.5	5.3	3.5	0.0	1.8	17.2	5.2	3.4	3.4	3.4	3.4	3.4
57	BURJI	14.3	17.5	7.1	33.3	7.0	17.5	19.3	14.0	28.1	6.8	57	30.4	8.8	5.4	5.3	3.5	29.8	14.0	5.3	10.5	8.6	8.6	8.6
46	SAMBURU	27.3	15.9	9.1	27.3	4.5	15.2	20.5	6.9	35.0	6.9	46	11.4	6.8	2.3	9.1	2.3	19.6	6.8	15.6	2.2	2.2	2.2	2.2
150	KADJADU NAASAI	19.7	24.0	6.0	26.0	4.7	19.3	17.4	16.0	21.5	6.0	150	20.7	6.0	2.7	1.3	3.3	18.0	10.7	6.0	3.4	4.0	4.0	4.0
23	KONY	4.3	13.0	0.0	21.7	0.0	4.3	0.0	4.3	39.1	4.3	23	8.7	0.0	0.0	4.3	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
50	NANDI	14.0	26.0	4.0	26.0	2.0	14.0	22.0	18.0	30.0	6.0	50	18.0	6.0	4.0	4.0	0.0	22.0	6.0	6.0	4.0	2.0	2.0	2.0
43	KIPISIGIS	14.0	18.6	9.3	16.3	4.7	9.3	25.6	14.0	30.2	2.3	43	18.6	9.3	0.0	2.3	2.3	27.9	4.7	2.3	0.0	2.3	0.0	2.3
102	TUGEN	12.7	11.8	5.9	21.6	3.9	5.9	13.9	10.9	23.8	7.9	102	23.5	7.8	2.0	4.9	1.0	28.7	5.0	1.0	4.0	3.0	3.0	3.0
50	KEYO	6.0	10.0	2.0	22.0	0.0	14.0	14.0	12.0	18.0	0.0	50	18.0	10.0	2.0	4.0	0.0	16.0	12.0	6.0	8.0	2.0	2.0	2.0
56	MARAKET	12.5	6.9	7.1	19.6	7.1	10.7	6.9	12.5	32.1	14.3	56	14.3	5.4	1.8	3.6	1.8	16.1	7.1	1.8	0.0	1.4	1.4	1.4
54	PUKUT	7.5	15.1	13.2	21.2	7.5	7.5	25.0	15.1	35.8	7.5	54	15.1	13.2	1.9	5.8	1.9	18.9	7.7	5.7	3.8	3.8	3.8	3.8
47	ITESH	21.3	27.7	19.1	23.4	4.3	6.3	25.5	17.0	31.9	4.3	47	21.3	0.0	0.0	0.0	0.0	12.8	2.1	0.0	2.1	2.1	2.1	2.1
43	TURKANA	14.0	17.3	11.9	20.6	4.7	9.5	16.6	15.6	25.6	4.7	43	14.0	4.6	2.4	4.8	2.3	19.0	4.7	2.3	2.3	4.7	4.7	4.7
107	LUO	10.3	26.2	13.1	29.0	6.4	11.2	23.4	17.8	26.2	9.3	107	17.8	7.5	4.7	3.7	1.9	26.2	6.5	3.7	2.8	0.9	0.9	0.9
51	GUSII	9.8	21.6	11.8	20.0	3.9	9.8	19.6	18.7	31.4	7.8	51	35.3	9.8	3.9	6.0	3.9	33.3	7.8	2.0	3.9	5.9	5.9	5.9
25	TIRIKI	12.0	26.0	8.0	20.0	8.0	0.0	16.0	16.0	20.0	6.0	25	16.0	8.0	4.0	0.0	4.0	28.0	12.0	4.0	8.0	0.0	0.0	0.0
24	MARAGOLI	16.7	4.2	12.5	26.0	0.0	12.5	20.8	16.7	33.3	4.2	24	30.8	12.5	0.0	0.0	4.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0
20	RUNYIBRE	30.0	15.0	5.0	20.0	5.0	10.0	15.8	0.0	0.0	0.0	20	30.8	5.0	0.0	0.0	5.0	40.0	5.3	0.0	5.0	5.0	5.0	5.0
15	IDAKHO	6.7	20.0	8.7	26.7	0.0	13.3	6.7	6.7	33.3	0.0	15	33.3	0.0	0.0	0.0	0.0	26.7	6.7	0.0	6.7	6.7	6.7	6.7
25	MARAMA	16.0	24.0	12.0	28.0	12.0	16.0	24.0	20.0	20.0	24.0	25	24.0	12.0	4.0	0.0	0.0	28.0	12.0	8.0	8.0	8.0	8.0	8.0
24	WANGA	16.7	20.8	8.3	12.5	0.0	4.2	12.5	4.2	8.3	4.2	24	20.8	4.2	6.3	0.0	0.0	41.7	8.3	8.3	8.3	0.0	0.0	0.0
24	MARACHI	4.2	25.0	4.2	16.7	4.2	4.2	16.7	12.5	29.2	4.2	24	25.0	4.2	0.0	0.0	0.0	29.2	8.3	0.0	4.2	0.0	0.0	0.0
26	BUKHAYO	3.8	11.5	7.7	19.4	7.7	15.4	11.5	11.5	26.9	11.5	26	23.1	7.7	3.8	0.0	0.0	11.5	3.8	0.0	0.0	0.0	0.0	0.0
26	SAMIA	11.5	23.1	11.5	30.8	7.7	3.8	26.9	11.5	26.9	3.8	26	15.4	15.4	3.8	3.8	3.8	19.2	19.2	7.7	7.7	15.4	15.4	15.4
27	BUTSISO	7.4	3.7	3.7	14.8	0.0	11.1	18.5	11.1	33.3	3.7	27	14.8	18.5	3.7	3.7	0.0	14.8	11.1	7.4	0.0	7.4	7.4	7.4
25	HUNYALA	16.0	16.0	12.0	18.0	8.0	16.0	12.5	6.0	6.0	0.0	25	16.0	8.0	4.0	4.0	0.0	24.0	0.0	4.0	0.0	0.0	0.0	0.0
26	KABRAS	3.8	3.8	3.8	0.0	0.0	3.8	11.5	3.8	7.7	0.0	26	30.8	11.5	0.0	0.0	7.7	3.8	11.5	3.8	0.0	3.8	0.0	3.8
39	KIAMBU KIKUYU	14.8	17.9	3.4	20.7	3.4	15.4	13.8	13.8	31.8	0.0	39	13.8	0.0	0.0	0.0	3.4	19.2	0.0	0.0	0.0	0.0	0.0	0.0
39	MURANGA KIKUYU	13.2	26.3	10.5	16.4	5.3	13.2	18.6	13.2	21.1	13.2	39	13.2	5.3	5.3	0.0	0.0	29.2	8.0	0.0	4.2	0.0	0.0	0.0
40	NYERI KIKUYU	15.2	13.0	6.7	8.7	8.7	6.7	13.0	6.7	21.7	2.2	40	19.6	13.0	2.2	8.7	2.2	30.4	10.9	4.3	4.3	4.3	4.3	4.3
51	NDIA	11.6	15.7	3.9	5.9	5.9	2.0	13.7	13.7	27.5	3.9	51	17.6	18.5	11.8	3.9	2.0	19.6	3.9	3.9	7.9	0.0	0.0	0.0
66	KAMBA	13.6	16.7	6.1	22.7	6.1	10.6	19.7	13.6	27.3	10.6	66	31.6	7.6	4.5	1.5	1.5	27.3	7.6	1.5	4.5	3.0	3.0	3.0
42	EMBU	12.2	16.7	11.9	21.6	2.4	14.3	21.4	11.9	21.4	4.6	42	24.4	9.5	2.4	0.5	0.0	20.2	11.9	7.1	9.5	7.1	7.1	7.1
72	MHEHE	19.4	20.8	4.2	16.7	4.2	22.2	18.1	6.9	26.4	8.3	72	30.6	11.1	1.4	4.2	0.0	25.0	9.7	4.2	4.2	2.8	2.8	2.8
66	CHUKA	9.1	12.1	3.0	10.6	0.0	13.6	12.3	7.7	17.2	1.6	66	22.7	9.1	0.0	0.0	0.0	18.5	6.2	1.5	0.0	3.1	3.1	3.1
61	MUTHAMBI	19.7	21.3	3.3	21.7	6.1	15.0	23.7	13.6	25.0	6.5	61	26.2	13.1	6.7	3.3	3.3	41.7	10.9	6.7	15.0	8.5	8.5	8.5
43	MWIMBI	18.6	21.2	5.0	22.5	5.7	13.7	17.5	18.6	26.2	10.0	43	27.5	10.0	2.5	3.7	1.3	27.5	12.9	3.7	7.5	1.2	1.2	1.2
43	IGOTI	20.9	23.3	4.7	16.3	4.7	16.6	27.9	4.7	24.9	9.3	43	23.3	9.3	4.7	2.3	2.3	23.3	4.7	4.7	7.0	2.3	2.3	2.3
45	IMENI	11.6	16.0	5.3	21.1	4.2	5.3	18.9	13.7	24.2	10.4	45	29.3	12.8	5.3	6.4	0.0	41.1	11.6	3.2	7.4	2.1	2.1	2.1
39	TIGANIA	15.4	23.1	7.7	23.1	0.0	12.8	15.4	12.8	26.2	2.4	39	23.1	10.3	5.1	2.6	0.0	23.1	7.7	0.0	2.6	7.7	7.7	7.7
36	IGEMHE	8.3	13.9	5.6	18.1	0.0	8.3	16.7	13.9	25.0	6.3	36	25.0	5.6	0.0	2.8	2.8	27.8	5.6	2.8	0.0	0.0	0.0	0.0
41	THARAKA	0.0	18.2	0.0	12.1	0.0	3.0	12.1	3.0	15.2	0.0	41	34.6	13.0	6.5	8.7	4.3	39.1	9.1	3.0	12.1	3.0	3.0	3.0
46	POKOMO	19.6	15.2	6.5	21.7	2.2	21.7	13.0	10.9	23.9	0.0	46	34.6	13.0	6.5	8.7	4.3	39.1	13.0	8.7	13.0	10.9	10.9	10.9
90	GILJANA	16.7	13.3	7.6	29.6	3.3	16.7	21.1	16.7	21.1	4.4	90	20.0	7.6	3.3	4.4	1.1	22.2	6.7	1.1	7.8	3.3	3.3	3.3
18	CHONYI	11.8	17.6	6.8	14.7	0.0	11.4	20.6	6.8	20.0	7.9	18	26.5	14.7	0.0	0.0	0.0	35.3	8.6	2.9	0.0	0.0	0.0	0.0
14	MWUJI KENYA	0.0	7.7	7.7	23.1	0.0	7.7	15.4	15.4	15.4	7.7	14	38.5	7.7	23.1	7.7	0.0	23.1	23.1	7.7	0.0	0.0	0.0	0.0
27	DIGO	14.6	19.5	3.7	11.1	0.0	7.4	26.9	3.7	25.9	7.4	27	25.9	22.2	3.7	11.1	3.7	22.2	7.7	11.1	18.5	3.7	3.7	3.7
100	TAITA	28.0	37.0	22.0	39.0	4.0	21.0	40.0	26.0	39.0	6.0	100	36.0	13.0	7.0	11.0	5.0	43.0	11.0	8.0	9.0	4.0	4.0	4.0
45	TAVETA	13.3	13.3	6.7	17.8	2.2	13.3	17.8	6.9	28.9	11.1	45	28.9	2.2	0.0	4.4	4.4	33.3	6.7	0.0	2.2	0.0	0.0	0.0
48		17.0	25.0	10.4	25.0	4.2	12.8	22.9	10.7	25.0	6.3	48	27.7	4.2	2.1	10.4	4.2	25.5	10.4	4.2	6.1	2.1	2.1	2.1

Table AP. 1.4.29 : Distribution of radial loops in Kenyan minimal ethnic population samples (males and females).

Radial Loops (Males)

POPULATION	NO	RIGHT HAND					LEFT HAND				
		ONE	TWO	THREE	FOUR	FIVE	FINGER	ONE	TWO	THREE	FOUR FIVE
SOMALI	224	9.4	4.0	1.8	0.4	0.4	0.9	0.4	0.7	0.4	0.9
RENDILLE	153	0.7	5.9	0.0	0.0	0.0	0.0	0.0	0.7	1.3	0.0
GABRA	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORAN	128	0.8	3.2	1.6	0.8	0.8	0.8	0.0	10.2	2.4	0.8
BURJI	64	0.0	4.7	1.4	0.0	0.0	0.0	0.0	6.3	1.6	0.0
SANBURU	87	0.0	5.7	0.0	1.2	0.0	0.0	0.0	10.6	0.0	2.3
KADJADO MAASAI	37	1.8	8.3	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
MAKADU MAASAI	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0
NEWEST	41	0.0	9.8	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
MUKDODO	38	0.0	2.6	2.6	0.0	0.0	0.0	0.0	7.9	0.0	2.6
KONY	37	0.0	5.4	2.7	0.0	0.0	0.0	0.0	18.9	0.0	2.7
NANDI	52	0.0	1.9	0.0	1.9	0.0	0.0	0.0	5.8	1.9	0.0
KIPSIGIS	57	1.4	5.4	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0
TUGEN	108	0.9	7.5	0.0	0.0	0.0	0.0	0.0	11.2	1.9	2.8
KEYO	50	0.0	4.0	0.0	4.0	0.0	0.0	0.0	12.0	6.1	2.0
MARAKWET	45	0.0	4.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	0.0
POKOT	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	2.3
ITESO	52	1.9	9.6	5.8	0.0	0.0	0.0	0.0	11.5	7.7	1.9
TURKANA	66	0.0	3.1	1.5	3.0	0.0	0.0	0.0	7.7	3.0	1.5
LUD	170	1.2	5.9	0.6	0.0	0.0	0.0	0.0	1.2	11.8	2.9
GUSII	50	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0
TIRIKI	26	0.0	3.8	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0
MARAGOLI	26	0.0	11.5	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0
BUNDRE	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.3	0.0
IOAKHO	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	2.6	0.0
MARAKA	25	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WANGA	25	0.0	16.0	4.0	0.0	0.0	0.0	0.0	20.0	8.0	0.0
MARACH	25	0.0	16.0	0.0	0.0	0.0	0.0	0.0	16.0	4.0	0.0
BUKUSU	23	0.0	9.1	0.0	0.0	0.0	0.0	0.0	13.0	4.0	0.0
SANIA	24	0.0	6.3	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0
BUTSOTSO	20	0.0	5.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0
BUNYALA	25	0.0	20.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
KABRAS	25	3.6	8.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0
MURANGA KIKUYU	61	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.8	11.5	0.0
NYERI KIKUYU	65	0.0	1.6	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0
NOTIA	56	1.8	11.1	1.8	0.0	0.0	0.0	0.0	1.8	10.1	7.1
KAMBA	46	0.0	4.2	0.0	0.0	0.0	0.0	0.0	20.4	6.1	0.0
EMBU	56	0.0	7.1	0.0	0.0	0.0	0.0	0.0	19.6	3.6	0.0
CHUKA	78	0.0	10.5	0.0	0.0	0.0	0.0	0.0	10.4	2.6	0.0
MBERE	87	2.3	4.6	0.0	0.0	0.0	0.0	0.0	10.1	1.1	3.4
CHUKA	75	0.0	9.3	0.0	0.0	0.0	0.0	0.0	12.0	5.3	1.3
MUTHANBI	76	1.3	10.5	0.0	0.0	0.0	0.0	0.0	1.3	18.0	1.3
MWIMBI	62	0.0	5.0	3.3	1.7	0.0	0.0	0.0	6.3	0.0	1.6
IGODJI	78	0.0	6.4	2.6	1.3	0.0	0.0	0.0	1.3	9.1	2.6
IGODJI	61	0.0	5.6	0.0	0.0	0.0	0.0	0.0	6.2	3.3	0.0
TIGANIA	64	0.0	9.4	0.0	1.6	0.0	0.0	0.0	14.3	0.0	0.0
IGENRE	66	0.0	9.1	0.0	1.5	0.0	0.0	0.0	9.4	4.5	1.5
THARAKA	54	0.0	9.3	0.0	0.0	0.0	0.0	0.0	13.2	1.9	0.0
POKOND	114	1.1	7.5	1.1	0.0	0.0	0.0	0.0	1.1	15.2	3.2
MALAKOTE	41	0.0	2.6	0.0	0.0	0.0	0.0	0.0	2.4	4.9	2.4
IGITANA	64	4.1	5.2	2.0	2.0	0.0	0.0	0.0	18.8	0.0	2.0
CHONYI	79	1.3	10.1	0.0	0.0	0.0	0.0	0.0	2.3	5.2	0.0
MWJ KENDA	32	0.0	3.1	0.0	3.1	0.0	0.0	0.0	3.1	12.5	0.0
DIGO	116	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.9	10.3	0.9
TAITA	55	0.0	3.6	1.8	0.0	0.0	0.0	0.0	3.6	7.4	0.0
TAVETA	59	0.0	5.1	1.7	0.0	0.0	0.0	0.0	0.0	12.1	0.0

Radial Loops (Females)

POPULATION	NO	RIGHT HAND					LEFT HAND				
		ONE	TWO	THREE	FOUR	FIVE	FINGER	ONE	TWO	THREE	FOUR FIVE
SOMALI	103	0.0	2.9	0.0	1.9	1.0	0.0	0.0	1.0	0.0	0.0
RENDILLE	46	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
GABRA	63	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORAN	67	0.0	5.3	1.8	0.0	0.0	0.0	0.0	13.8	1.7	0.0
BURJI	57	0.0	1.9	0.0	1.6	0.0	0.0	0.0	1.6	10.5	0.0
SANBURU	46	2.3	4.5	0.0	0.0	0.0	0.0	0.0	2.2	11.4	0.0
KADJADO MAASAI	150	0.0	4.0	0.0	1.3	0.0	0.0	0.0	0.7	10.1	3.3
KONY	23	4.3	4.3	0.0	4.3	0.0	0.0	0.0	17.4	0.0	0.0
NANDI	50	0.0	2.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	4.0
KIPSIGIS	43	0.0	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.3
TUGEN	102	0.0	3.9	1.0	2.0	0.0	0.0	0.0	12.9	5.0	2.0
KEYO	50	0.0	4.0	0.0	2.0	0.0	0.0	0.0	10.0	2.0	0.0
MARAKWET	58	0.0	1.8	0.0	0.0	0.0	0.0	0.0	5.4	1.8	0.0
POKOT	54	1.9	0.0	0.0	0.0	0.0	0.0	0.0	7.7	1.9	3.8
ITESO	47	0.0	10.6	0.0	2.1	0.0	0.0	0.0	4.3	12.8	2.1
TURKANA	43	6.7	4.8	0.0	0.0	0.0	0.0	0.0	9.3	0.0	2.3
LUD	107	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.9	8.4	0.0
GUSII	51	0.0	3.9	0.0	0.0	0.0	0.0	0.0	11.8	2.0	3.9
TIRIKI	25	0.0	12.0	0.0	0.0	0.0	0.0	0.0	24.0	4.0	0.0
MARAGOLI	24	0.0	8.3	0.0	0.0	0.0	0.0	0.0	20.8	0.0	0.0
BUNDRE	20	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0
IOAKHO	15	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MARAKA	24	0.0	6.3	0.0	0.0	0.0	0.0	0.0	10.7	0.0	0.0
WANGA	24	0.0	4.2	0.0	0.0	0.0	0.0	0.0	4.2	12.5	8.3
MARACH	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	15.4	0.0
BUKUSU	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	11.1	0.0
SANIA	27	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BUTSOTSO	25	0.0	8.0	0.0	0.0	0.0	0.0	0.0	20.8	0.0	4.0
BUNYALA	26	0.0	19.2	0.0	0.0	0.0	0.0	0.0	7.7	11.5	7.7
KABRAS	29	0.0	7.1	0.0	0.0	0.0	0.0	0.0	10.3	6.9	0.0
MURANGA KIKUYU	39	2.6	5.3	0.0	2.6	0.0	0.0	0.0	2.6	10.5	2.6
NYERI KIKUYU	46	0.0	2.2	0.0	2.2	0.0	0.0	0.0	2.2	6.7	0.0
NOTIA	51	0.0	0.0	0.0	2.0	0.0	0.0	0.0	15.7	5.9	3.9
KAMBA	64	1.5	1.5	0.0	0.0	0.0	0.0	0.0	1.5	12.1	3.0
EMBU	42	0.0	9.5	0.0	0.0	0.0	0.0	0.0	7.1	2.4	2.4
CHUKA	72	0.0	6.9	0.0	0.0	0.0	0.0	0.0	1.4	15.3	0.0
MBERE	66	0.0	1.5	0.0	0.0	0.0	0.0	0.0	1.5	13.4	0.0
CHUKA	61	0.0	4.9	0.0	0.0	0.0	0.0	0.0	3.3	11.9	3.1
MUTHANBI	63	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	1.2
MWIMBI	43	2.3	7.0	0.0	0.0	0.0	0.0	0.0	11.6	2.3	0.0
IGODJI	95	2.1	3.2	0.0	1.1	0.0	0.0	0.0	4.2	6.3	2.1
IGODJI	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	12.8	2.6
TIGANIA	36	0.0	2.8	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
IGITANA	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THARAKA	46	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POKOND	90	1.1	5.6	0.0	1.1	0.0	0.0	0.0	2.2	12.2	1.1
CHONYI	14	0.0	6.8	0.0	0.0	0.0	0.0	0.0	5.9	14.7	5.7
MWJ KENDA	38	0.0	7.7	0.0	0.0	0.0	0.0	0.0	23.1	7.7	0.0
DIGO	27	0.0	3.7	0.0	0.0	0.0	0.0	0.0	11.1	7.7	0.0
TAITA	100	3.0	3.0	0.0	1.0	0.0	0.0	0.0	4.0	4.0	1.0
TAVETA	48	2.1	2.1	2.1	0.0	0.0	0.0	0.0	2.1	2.1	0.0

Table AP. 1.4.30 : Distribution of basic digital patterns on all fingers by hand in Kenyan minimal ethnic population samples (males).

Pop	Sample No.	RIGHT HAND										LEFT HAND									
		A %	AT %	UL %	RL %	CW %	DL %	UCP %	RCP %	ACC %		Sample No.	A %	AT %	UL %	RL %	CW %	DL %	UCP %	RCP %	ACC %
Somali	1110	2.1	0.0	58.7	1.5	25.9	6.7	3.2	0.9	0.1		1115	2.4	0.4	61.9	1.7	20.4	9.4	2.6	0.8	0.2
Gabbra	134	0.7	0.7	64.2	0.0	18.7	9.0	5.2	1.5	0.0		135	0.0	0.0	71.9	0.7	15.6	5.8	3.7	0.2	0.0
Boran	633	4.9	0.2	60.2	1.4	19.7	9.8	3.5	0.3	0.0		635	5.8	0.3	61.1	2.7	17.6	9.6	2.0	0.6	0.2
Burji	320	1.6	0.0	59.7	1.3	23.8	10.3	2.2	0.9	0.2		320	2.5	0.0	52.8	1.6	20.3	14.1	1.9	1.3	0.6
Rendille	758	2.4	0.0	58.7	1.3	23.8	6.3	5.4	0.3	0.0		757	3.7	0.5	59.4	1.8	23.9	6.7	3.0	0.8	0.0
Samburu	433	2.5	0.0	66.3	1.4	19.2	7.2	3.5	0.0	0.0		431	3.2	0.3	61.9	2.6	20.0	6.7	4.2	0.9	0.0
Kadjiado																					
Maasai	315	2.8	0.0	63.2	1.6	20.6	7.6	4.1	0.0	0.0		315	4.8	0.0	64.1	0.6	19.7	7.6	2.9	0.3	0.0
Harok																					
Maasai	175	6.1	0.0	63.1	0.0	16.8	9.5	3.9	0.6	0.0		160	7.6	0.0	65.0	1.1	17.5	5.6	1.7	1.1	0.0
Ngwas	205	1.0	0.0	62.9	2.0	20.0	10.2	3.4	0.5	0.0		200	2.5	0.0	61.5	2.0	20.0	10.5	2.5	1.0	0.0
Wahogodo	190	2.6	0.5	55.5	1.1	29.5	10.0	0.5	0.0	0.0		190	4.2	0.0	54.2	2.1	24.7	11.5	7.5	0.5	0.0
Kony	185	8.1	0.0	70.3	1.6	12.4	3.2	4.3	6.0	0.0		185	11.9	0.0	62.7	5.4	11.9	5.4	2.7	0.0	0.0
Nandi	259	2.3	0.0	64.9	0.8	15.1	13.1	3.1	0.8	0.0		260	2.7	0.4	66.5	1.5	18.1	6.5	3.5	0.4	0.0
Kipsigis	279	3.6	0.4	60.2	1.4	21.1	8.8	3.9	0.7	0.0		275	5.8	0.0	55.1	2.9	21.7	6.7	4.0	1.8	0.0
Tugen	334	3.2	0.2	67.2	2.1	15.2	5.4	2.4	0.4	0.0		338	3.5	0.2	66.7	3.3	15.4	8.6	1.9	0.4	0.0
Keyo	255	2.4	0.0	68.6	1.6	15.7	6.3	4.3	0.8	0.4		254	2.4	0.4	67.7	4.3	16.5	8.7	0.8	1.2	0.0
Marakwet	250	0.8	0.0	66.0	1.2	18.4	5.8	6.9	0.0	0.0		250	3.6	0.0	64.4	1.2	20.8	4.8	4.8	0.4	0.0
Pokot	225	3.6	0.0	66.9	0.0	16.4	8.4	2.2	0.4	0.0		223	4.0	0.4	74.4	2.2	9.4	6.7	2.7	0.0	0.0
Iteso	260	3.5	0.0	70.4	3.5	12.3	5.4	3.8	0.8	0.0		260	5.0	0.0	65.5	4.2	11.5	5.8	3.1	0.6	0.0
Turkana	327	6.1	0.6	50.5	1.5	26.0	11.3	3.7	0.3	0.0		329	7.6	0.0	55.6	2.7	20.4	10.3	3.3	0.0	0.0
Luo	846	2.2	0.2	66.1	1.5	16.7	9.2	3.0	1.1	0.0		850	3.9	0.2	63.7	3.3	15.9	9.3	3.2	0.9	0.0
Gusii	246	2.8	0.0	64.2	2.4	15.4	12.6	2.4	0.0	0.0		250	2.8	0.0	65.6	4.0	15.8	9.6	2.0	0.4	0.0
Tiriki	130	6.0	0.0	59.2	0.8	13.1	16.2	4.6	0.0	0.0		130	7.7	1.5	63.1	1.5	11.5	12.3	2.3	0.0	0.0
Maragoli	130	5.4	0.0	69.2	2.3	16.2	3.1	3.1	0.8	0.0		130	6.2	0.0	66.2	3.1	16.9	7.7	0.0	0.0	0.0
Bunyoro	149	0.7	0.0	59.7	2.7	21.5	10.1	3.4	2.0	0.0		148	1.4	0.0	68.2	1.4	15.5	10.1	2.0	1.4	0.0
Idahao	195	1.5	0.0	74.4	0.0	10.3	10.3	3.6	0.0	0.0		195	4.1	0.0	74.4	2.6	7.2	11.3	0.5	0.0	0.0
Marana	125	1.6	0.0	49.6	0.8	29.6	10.4	5.6	1.6	0.8		125	3.2	0.0	56.4	1.8	26.4	9.6	0.8	0.0	0.0
Wanga	125	1.6	0.0	72.0	4.0	8.8	8.8	4.8	0.0	0.0		125	1.6	0.0	72.6	5.6	8.8	6.0	0.8	1.6	0.8
Marach	125	5.6	0.0	57.6	3.2	22.4	7.2	3.2	0.8	0.0		125	6.4	0.0	60.0	4.0	15.2	10.4	3.2	0.8	0.0
Bukhoyo	110	5.5	0.0	72.7	1.8	13.6	2.7	3.6	0.0	0.0		115	6.1	0.0	66.1	5.2	13.0	7.8	0.9	0.9	0.0
Samia	120	7.5	0.0	58.2	1.7	10.0	15.8	4.2	1.7	0.0		120	6.7	0.8	67.2	0.8	8.3	11.7	2.5	1.7	0.0
Burkotao	100	0.0	0.0	64.0	1.0	15.0	10.0	6.0	2.0	0.0		100	3.0	0.0	72.0	3.0	12.0	6.0	3.0	1.0	0.0
Bunyala	125	6.4	0.0	59.2	4.8	19.2	6.6	3.2	0.8	0.0		124	4.8	0.8	62.1	4.0	18.4	4.8	2.4	0.6	0.6
Kabras	128	1.6	0.0	57.8	2.3	25.8	10.2	2.5	0.0	0.0		130	3.1	0.4	63.1	3.1	12.3	13.8	3.1	0.5	0.0
Bukusu	301	5.0	0.0	64.1	0.3	14.0	9.3	5.6	1.7	0.0		303	5.3	0.3	67.3	3.6	11.9	9.2	1.7	0.7	0.0
Kiambu																					
Kikuyu	320	2.5	0.0	66.3	0.3	17.8	9.4	3.1	0.6	0.0		319	4.4	0.3	63.9	1.3	17.6	10.0	2.5	0.0	0.0
Muranga																					
Kikuyu	274	3.3	0.0	61.3	2.9	17.2	12.0	3.3	0.0	0.0		280	3.6	1.1	56.1	5.7	15.7	15.0	2.1	0.7	0.0
Nyeri																					
Kikuyu	244	7.0	0.0	59.6	0.6	16.0	10.7	3.3	0.4	0.0		244	7.8	1.6	56.1	5.3	15.2	11.1	1.6	0.4	0.8
Ndia	280	3.2	0.0	69.6	1.4	11.8	10.0	3.2	0.7	0.0		278	6.8	0.4	60.6	4.7	14.7	9.4	2.5	0.7	0.0
Kamba	380	2.9	0.3	66.3	2.4	13.2	11.6	3.2	0.3	0.0		382	4.5	0.3	60.8	3.1	14.9	14.4	1.6	0.6	0.0
Embu	435	2.1	0.0	71.7	1.4	10.3	13.1	1.1	0.2	0.0		435	6.4	0.5	66.9	4.8	6.7	12.9	0.9	0.5	0.4
Mbora	315	5.1	0.3	60.0	1.0	20.2	11.1	2.2	0.0	0.0		315	4.4	0.3	61.3	0.6	16.5	14.9	1.9	0.0	0.0
Chuka	375	2.4	0.3	63.7	2.1	17.5	10.9	2.4	0.5	0.0		375	1.6	0.0	64.0	3.7	13.1	10.6	2.7	1.3	0.0
Muthambo	380	1.8	0.5	63.9	2.4	17.4	10.8	2.6	0.5	0.0		379	2.4	1.1	64.4	3.7	12.4	12.4	2.6	1.1	0.0
Mwinbi	289	2.7	0.0	73.9	2.0	11.4	7.0	2.0	0.0	0.0		304	5.3	0.7	67.8	2.0	12.2	11.2	0.7	0.3	0.0
Igoji	387	3.9	0.3	66.1	2.1	15.0	10.8	1.8	0.3	0.0		389	4.6	0.3	62.2	3.1	15.9	11.1	1.3	1.3	0.3
Imenti	305	3.0	0.0	63.9	1.3	16.0	9.5	4.3	0.0	0.0		304	5.3	0.0	59.2	3.0	17.4	11.8	1.6	1.6	0.0
Tigania	320	4.7	0.0	64.4	2.2	15.8	8.8	5.4	0.5	0.3		319	5.0	0.0	69.6	2.6	13.2	8.2	0.2	0.9	0.0
Igembe	328	1.5	0.2	65.9	2.1	18.3	6.2	3.0	0.6	0.0		327	2.1	0.3	67.6	3.1	17.1	8.3	1.2	0.3	0.0
Tharaka	270	6.7	0.0	57.6	1.9	18.5	12.3	3.3	0.4	0.0		269	7.1	0.0	59.4	3.0	15.2	14.5	1.1	0.7	0.0
Pokomo	465	4.1	0.0	64.9	1.9	16.1	9.0	3.4	0.4	0.0		464	6.7	0.2	61.6	4.3	13.8	11.0	1.3	0.6	0.4
Malakote	162	2.5	0.6	58.0	0.6	20.4	15.4	1.2	1.2	0.0		170	2.9	0.0	71.2	0.0	10.0	14.1	1.2	0.6	0.0
Giriama	245	3.3	0.0	60.0	3.3	16.7	12.2	3.3	1.2	0.0		243	4.9	0.4	60.2	4.5	8.6	18.8	2.1	0.4	0.0
Chonyi	395	2.3	0.0	63.5	2.3	15.2	9.9	5.2	0.8	0.0		392	5.4	0.0	64.0	1.5	15.1	9.7	3.1	1.3	0.0
Mid Mji																					
Kenda	160	3.1	0.0	60.0	1.3	16.1	11.9	4.4	1.3	0.0		160	6.3	0.0	54.4	3.1	16.3	16.3	3.5	0.0	0.0
Digo	580	3.6	0.2	58.1	0.9	22.4	12.4	2.4	0.0	0.0		580	3.6	0.2	60.3	2.6	16.4	14.0	1.9	0.7	0.2
Taita	275	4.4	0.0	73.5	1.1	13.1	5.8	1.5	0.7	0.0		274	5.5	0.4	72.3	2.6	11.3	6.2	1.5	0.4	0.0
Taveta	292	9.6	0.0	62.8	1.4	13.3	9.6	3.1	0.3	0.0		290	10.7	0.0	65.2	2.4	8.6	9.3	2.4	1.4	0.0

Table AP. 1.4.31 : Distribution of basic digital patterns on all fingers by hand in Kenyan minimal ethnic population samples (females).

Pop	RIGHT HAND											LEFT HAND										
	No. of Fingers	A %	AT %	UL %	RL %	CV %	DL %	UCP %	RCP %	ACC %		No. of Fingers	A %	AT %	UL %	RL %	CV %	DL %	UCP %	RCP %	ACC %	
Somali	515	2.1	0.2	65.6	1.2	19.2	6.6	4.1	0.6	0.0		515	1.5	0.2	69.5	0.2	17.9	10.9	3.1	0.8	0.0	
Swahili	221	2.3	0.0	65.2	1.4	18.6	7.7	5.0	0.0	0.0		229	3.3	0.4	65.5	2.2	25.3	6.1	5.7	1.3	0.0	
Gabbara	313	0.3	0.0	64.8	1.0	20.8	8.0	4.3	0.6	0.0		311	1.9	0.6	58.8	1.9	24.4	6.0	2.6	0.6	0.0	
Borana	284	6.4	0.0	70.8	1.4	14.1	5.6	1.4	0.4	0.0		290	7.1	0.2	67.2	3.1	13.4	6.6	1.7	0.3	0.0	
Burji	282	5.3	0.0	65.4	0.7	15.9	10.6	1.6	0.4	0.0		285	7.7	0.4	56.1	2.8	17.3	13.7	0.7	1.1	0.0	
Samburu	220	1.8	0.0	69.5	1.4	16.8	6.4	3.2	0.9	0.0		223	4.4	0.0	60.9	3.1	17.8	9.3	3.6	0.9	0.0	
Kisumu																						
Maasai	750	5.6	0.0	65.6	1.1	16.3	6.8	3.9	0.8	0.0		748	9.6	0.0	57.8	3.5	15.6	8.4	1.1	1.9	0.0	
Looy	115	4.3	0.0	78.3	2.6	7.8	2.6	3.3	0.9	0.0		115	3.2	0.0	77.4	3.5	10.4	0.9	0.9	1.7	0.0	
Wandi	250	7.2	0.0	69.4	0.4	14.4	6.4	3.2	0.0	0.0		250	8.4	0.4	58.8	2.4	18.4	6.4	2.4	0.8	0.0	
Kipsigis	215	6.5	0.0	69.3	0.9	12.6	6.3	4.2	0.0	0.0		215	7.4	0.0	64.7	0.5	16.3	7.4	2.8	0.9	0.0	
Tugen	510	1.0	0.2	75.5	1.4	11.2	7.8	2.5	0.4	0.0		505	2.4	0.2	68.5	4.8	12.3	9.3	2.4	1.2	0.0	
Kayo	250	4.8	0.0	77.8	1.2	8.0	6.8	1.2	0.4	0.0		250	4.0	2.0	64.8	2.8	12.8	8.6	3.6	1.2	0.0	
Marakwet	280	5.7	0.4	71.1	0.4	11.1	5.4	5.0	0.7	0.4		280	7.5	1.4	61.1	1.8	15.7	5.4	4.2	2.9	0.0	
Pokot	264	3.4	0.0	72.3	0.4	12.9	7.6	3.0	0.4	0.0		264	4.3	0.4	58.7	3.0	18.2	6.0	3.0	0.4	0.0	
Iteso	235	4.3	0.0	66.0	2.8	19.1	4.7	2.1	1.3	0.0		235	4.7	0.0	64.3	4.3	17.4	3.8	3.4	2.1	0.0	
Turkana	212	3.3	0.0	70.3	1.9	14.6	5.7	4.2	0.0	0.0		214	7.0	0.9	65.0	3.3	14.5	6.5	2.2	0.5	0.0	
Luo	535	3.7	0.0	66.7	1.3	17.4	7.1	3.6	0.0	0.2		535	5.6	0.0	61.9	2.1	17.6	8.0	3.4	1.5	0.0	
Gusii	254	3.9	0.0	68.1	0.8	13.4	11.8	1.2	0.8	0.0		255	7.6	0.8	55.7	3.9	16.9	10.6	1.2	3.1	0.0	
Tiriki	126	3.2	0.0	69.9	2.4	15.2	8.0	1.6	0.0	0.0		125	2.4	0.6	63.2	7.2	13.6	10.4	2.4	0.0	0.0	
Maragoli	120	2.5	0.0	74.2	1.7	11.7	7.5	1.7	0.8	0.0		120	2.5	0.6	65.8	4.2	17.5	6.7	0.8	1.7	0.0	
Bunyora	100	2.0	0.0	74.0	1.0	15.0	8.0	0.0	0.0	0.0		99	8.1	2.0	74.7	1.0	11.1	12.1	0.0	0.0	0.0	
Idakho	78	4.0	0.0	74.7	1.3	12.0	6.7	1.3	0.0	0.0		78	5.3	2.7	66.7	1.3	12.0	8.0	1.2	2.7	0.0	
Wakama	125	4.8	0.0	65.6	0.0	16.4	8.0	2.4	0.8	0.0		125	5.8	0.0	59.2	0.8	20.8	11.2	1.6	0.8	0.0	
Wanga	120	7.5	0.0	69.2	1.7	11.7	6.7	2.5	0.8	0.0		120	10.0	0.8	62.5	4.2	6.7	13.3	1.7	0.8	0.0	
Marach	120	4.2	0.0	75.9	0.8	10.8	5.6	2.5	0.0	0.0		120	3.3	0.6	64.1	5.0	13.3	8.3	3.3	1.7	0.0	
Bukhavo	130	2.3	0.0	78.5	0.0	5.2	6.9	2.3	0.8	0.0		130	4.6	0.0	68.5	3.8	16.4	3.1	4.6	0.0	0.0	
Samsi	130	3.1	0.0	66.9	0.0	16.9	8.5	3.8	0.8	0.0		130	5.4	0.0	60.0	3.1	14.6	13.8	2.3	0.8	0.0	
Butaotao	135	2.7	0.0	79.3	2.2	5.4	8.1	0.7	0.0	0.0		135	7.4	0.0	63.0	3.0	15.6	8.1	2.2	0.7	0.0	
Bunyala	125	7.2	0.0	66.4	3.2	13.6	7.2	1.6	0.8	0.0		124	8.9	0.0	64.5	6.8	9.7	6.5	3.2	0.8	0.0	
Kabura	130	10.0	0.0	70.0	3.6	2.3	10.8	3.1	0.0	0.0		130	12.3	0.0	70.0	5.4	5.4	5.4	3.8	2.2	0.8	
Bukuru	142	4.2	0.0	78.1	1.4	12.0	2.1	3.5	0.7	0.0		141	6.4	0.0	70.2	4.3	10.6	3.5	3.5	1.4	0.0	
Kikuyu																						
Kikuyu	190	6.8	0.0	65.2	2.1	14.7	6.3	4.7	0.0	0.0		190	10.3	0.0	58.4	2.2	15.3	7.9	3.2	1.6	0.0	
Muranga																						
Kikuyu	230	8.3	0.0	67.8	1.2	10.0	9.1	3.5	0.0	0.0		230	10.0	0.4	61.7	3.9	10.9	10.9	1.7	0.4	0.0	
Nyeri																						
Kikuyu	255	4.7	0.4	73.7	0.4	7.8	10.2	2.0	0.8	0.0		255	6.7	0.4	62.7	5.1	14.9	6.7	2.0	1.2	0.4	
Nais	330	3.0	0.3	70.3	0.6	13.0	9.4	3.3	0.0	0.0		330	4.5	0.9	62.4	3.6	16.4	9.9	2.4	0.9	0.0	
Embu	208	1.4	0.0	71.6	1.9	12.9	9.1	1.9	1.0	0.0		210	2.9	0.5	65.2	2.4	14.9	12.4	1.4	0.5	0.0	
Embu	360	4.2	0.0	68.1	1.4	23.1	9.4	3.6	0.3	0.3		360	5.6	0.0	60.6	3.2	16.4	9.2	7.3	1.4	0.0	
Wabere	230	4.2	0.0	76.7	0.8	7.0	6.4	4.8	0.0	0.3		324	7.1	0.3	68.5	3.7	10.5	5.9	3.1	0.9	0.0	
Chuka	302	3.6	0.0	67.9	1.0	14.6	10.6	2.2	0.0	0.0		298	5.0	0.0	55.0	3.7	17.1	17.8	0.7	0.7	0.0	
Muthambi	399	2.5	0.1	69.7	1.0	14.5	9.0	2.6	0.3	0.0		400	4.1	0.5	60.5	3.0	17.3	10.3	2.3	1.8	0.0	
Wetani	215	4.7	0.0	65.4	1.9	14.0	8.4	1.3	0.5	0.0		215	5.8	0.5	64.2	3.3	16.3	4.4	0.5	0.5	0.1	
Igoji	474	7.0	0.0	66.5	1.3	11.6	11.2	2.5	0.0	0.0		474	8.6	0.2	58.4	3.0	14.6	13.1	1.5	0.8	0.0	
Imwani	195	3.6	0.5	71.3	0.0	13.6	8.2	2.1	0.5	0.0		195	9.2	0.0	59.0	3.6	14.4	8.2	1.0	4.6	0.0	
Tigania	180	4.4	0.0	77.2	1.1	7.8	7.2	1.7	0.6	0.0		180	6.7	0.0	66.7	2.2	14.4	7.2	2.8	0.0	0.0	
Igamba	164	7.9	0.8	74.4	0.8	6.1	7.9	1.2	1.2	0.0		165	7.3	1.8	63.6	3.0	7.9	10.3	2.4	3.6	0.0	
Tharaka	230	5.7	0.0	66.5	0.4	13.0	13.5	0.0	0.9	0.0		230	7.0	0.8	57.4	1.3	13.9	17.0	1.3	1.3	0.0	
Pokomo	450	8.2	0.0	66.0	1.6	13.3	7.3	2.4	1.1	0.0		450	9.8	0.2	59.6	3.3	16.0	8.2	1.8	1.1	0.0	
Giriama	173	7.5	0.8	69.3	2.3	10.4	8.1	5.8	0.0	0.0		176	8.0	0.0	61.9	5.1	13.6	9.1	1.1	1.1	0.0	
Chonyi	55	7.7	1.5	69.1	1.5	7.7	15.4	3.1	0.0	0.0		65	9.2	0.0	63.1	6.2	10.6	10.6	0.0	0.0	0.0	
Mid Nji																						
Kenda	135	5.2	0.0	66.7	0.7	8.6	13.2	4.4	0.0	0.0		134	4.5	0.0	61.9	3.7	14.2	12.7	2.1	0.7	0.0	
Digo	500	3.4	0.4	51.4	1.4	25.2	14.4	3.4	0.4	0.0		500	4.8	0.2	48.8	2.0	26.4	15.0	1.8	1.0	0.0	
Taita	225	3.1	0.9	72.9	0.9	10.7	8.0	3.1	0.4	0.0		225	4.8	0.4	63.1	5.8	16.0	6.4	0.9	0.4	0.0	
Taveta	239	6.3	0.0	62.8	1.3	16.3	9.6	3.8	0.0	0.0		239	7.9	0.0	56.9	1.7	16.7	9.6	2.9	4.2	0.0	

Table AP. 1.4.32 : Distribution of total patterns on all fingers by hand in Kenyan minimal ethnic population samples (males).

Population	No	Right hand			No	Left hand		
		Arches %	Loops %	Whorls %		Arches %	Loops %	Whorls %
Somali	1110	2.1	61.3	36.7	1115	2.9	63.6	33.5
Gabbara	134	1.5	64.2	34.3	135	0.0	72.6	27.4
Soran	633	5.1	61.6	33.3	635	6.1	63.6	30.1
Burji	320	1.6	60.9	37.5	320	2.3	64.4	33.1
Rendille	758	2.4	60.0	37.6	757	4.2	61.3	34.5
Samduru	433	2.5	67.7	29.8	431	3.7	64.5	31.8
Kadjiado Maasai	315	2.9	64.6	32.4	315	4.8	64.6	30.5
Warok Maasai	179	6.1	63.1	30.7	180	7.8	66.1	26.1
Ngweesi	205	1.0	64.9	34.1	200	2.5	63.5	34.0
Mukogodo	190	3.2	66.8	40.0	190	4.2	66.3	35.5
Kony	185	6.1	71.9	20.0	185	1.5	68.1	20.0
Nandi	259	2.3	65.6	32.0	260	3.1	66.5	28.5
Kipsigis	279	3.5	61.6	34.4	275	5.8	68.0	26.2
Tugen	534	3.4	69.3	27.3	538	3.7	70.1	26.2
Keyo	255	2.4	70.2	27.5	254	2.6	72.0	25.2
Karakwet	250	0.8	67.2	32.0	250	3.5	65.5	30.8
Pokot	225	3.6	68.9	27.6	223	4.5	76.7	18.6
Iteso	260	3.8	73.8	22.3	260	5.0	73.5	21.2
Turkana	327	5.7	52.0	41.3	329	7.6	58.4	34.0
Luo	846	2.5	67.5	29.9	850	4.1	66.5	29.3
Gusii	245	2.8	66.7	30.5	250	2.6	69.6	27.6
Tiriki	130	6.2	60.0	33.6	130	8.2	64.6	26.2
Maragoli	130	5.4	71.5	23.1	130	6.2	69.2	24.6
Bunyore	149	0.7	62.4	35.9	145	1.4	65.6	29.1
Idakho	195	1.5	74.4	24.1	195	4.1	76.9	19.0
Merama	125	1.6	60.4	46.0	125	3.2	60.0	36.8
Wanga	125	1.6	76.0	22.4	125	1.6	76.4	20.0
Marach	125	5.6	60.8	33.6	125	6.4	64.0	29.6
Bukhayo	110	5.5	74.5	20.0	115	6.1	71.3	22.6
Sania	120	7.5	60.8	31.7	120	7.5	68.3	24.2
Butsotso	100	0.0	65.0	35.0	100	3.2	75.0	22.0
Bunyala	125	6.4	64.0	29.6	124	5.5	66.1	28.2
Nabras	126	1.6	60.2	38.3	130	3.5	66.2	30.0
Bukusu	301	5.0	64.5	30.5	303	5.6	71.0	23.4
Kiambo Kikuyu	320	2.5	66.6	30.9	315	4.7	65.2	30.1
Muranga Kikuyu	274	3.3	64.2	32.5	280	4.6	61.6	33.5
Nyeri Kikuyu	244	7.0	60.7	32.4	244	9.4	61.5	29.1
Ngia	280	3.2	71.1	25.7	275	7.2	65.5	27.3
Kamoa	380	3.2	68.7	28.2	382	4.7	63.6	31.7
Enbu	435	2.1	73.1	24.8	435	6.9	71.7	21.4
Mbere	315	5.4	61.0	33.7	315	4.5	61.9	33.3
Chuka	375	2.7	65.9	31.5	375	1.6	67.7	30.7
Muthambi	360	2.4	66.3	31.3	379	3.4	68.1	28.5
Mwimbi	299	3.7	75.9	20.4	304	5.5	69.7	24.3
Igaji	387	4.1	66.2	27.6	385	4.9	65.3	29.8
Imenti	305	3.0	65.2	31.8	304	5.3	62.2	32.6
Tigania	320	4.7	66.5	28.8	319	5.0	72.4	22.6
Igembe	329	1.8	69.0	30.2	327	2.4	70.5	26.9
Tharaka	270	6.7	58.9	34.4	269	7.1	61.3	31.6
Pokomo	465	4.1	66.9	29.0	464	5.9	65.9	27.2
Malakote	162	3.1	66.6	38.3	170	2.9	71.2	25.9
Giriama	254	3.3	63.3	33.5	243	5.3	65.0	29.6
Chonyi	395	3.3	65.6	31.1	392	5.4	65.6	29.1
Via Mji Kenia	160	3.1	61.3	35.6	160	6.3	57.5	36.1
Diga	580	3.6	59.0	37.2	580	4.0	62.9	33.1
Taita	275	4.4	74.5	21.1	274	5.5	74.5	19.3
Taveta	295	5.6	64.2	29.3	290	10.7	67.6	21.7

No = number of fingers

Table AP. 1.4.33 : Distribution of total patterns on all fingers by hand in Kenyan minimal ethnic population samples (females).

Population	No	Right hand			No	Left hand		
		Arches %	Loops %	Whorls %		Arches %	Loops %	Whorls %
Somali	515	2.3	66.8	30.9	515	3.7	63.7	32.6
Dabbra	313	0.3	65.8	33.9	311	2.6	60.8	36.7
Boran	294	5.3	72.2	21.5	290	7.5	70.3	22.1
Burji	283	5.3	66.1	28.6	285	9.1	59.9	31.0
Rendilla	221	2.3	66.5	31.2	229	3.9	57.6	38.4
Samburu	220	1.8	70.9	27.3	225	4.4	64.0	31.6
Kadjiado Maasai	750	5.6	66.7	27.7	748	8.8	61.2	29.9
Kony	115	4.3	80.9	14.8	115	5.2	80.9	13.9
Nandi	250	7.2	68.8	24.0	250	8.8	61.2	30.0
Kipsigis	215	5.6	70.2	23.3	215	7.4	65.1	27.4
Tugen	510	1.2	76.9	22.0	505	2.6	73.1	24.4
Kayo	250	4.8	78.8	16.4	250	6.0	67.6	26.4
Marakwet	280	6.1	71.4	22.5	280	8.9	62.9	28.2
Pokot	264	3.4	72.7	23.9	264	8.7	61.7	29.6
Iteso	235	4.3	68.5	27.2	235	4.7	68.5	26.8
Turkana	212	3.3	72.2	24.5	214	7.9	68.2	23.9
Luo	535	3.7	68.0	28.2	535	5.6	63.9	30.5
Busii	254	3.9	68.9	27.2	255	8.6	68.6	22.8
Tiriki	125	3.2	72.0	24.8	125	3.2	70.4	26.4
Maragoli	120	2.5	75.8	21.7	120	3.3	70.0	26.7
Bunyore	100	2.0	75.0	23.0	99	8.1	75.8	16.1
Isakho	75	4.0	75.0	20.0	75	8.0	68.0	24.0
Marama	125	4.8	68.8	26.4	125	5.6	60.0	34.4
Wanga	120	7.5	70.8	21.7	120	10.8	66.7	22.5
Marach	120	4.2	76.7	19.2	120	4.2	69.2	26.7
Bukhayo	130	2.3	78.5	19.2	130	4.6	72.3	23.1
Bamia	130	3.1	66.9	30.0	130	5.4	63.1	31.5
Butsotso	135	3.7	61.5	34.8	135	7.4	65.9	26.7
Bunyala	135	7.2	69.6	23.2	124	8.9	71.0	20.2
Kaptas	130	10.0	73.8	16.2	130	10.3	75.4	14.3
Bukusu	142	4.2	77.5	18.3	141	6.4	74.5	19.1
Niambo Kikuyu	190	5.8	67.4	26.8	190	10.5	61.6	27.9
Muranga Kikuyu	330	5.3	69.1	25.6	330	10.4	65.7	23.9
Nyeri Kikuyu	255	5.1	74.1	20.8	255	7.1	67.8	25.1
Ndia	330	3.3	70.9	25.8	330	5.8	66.1	28.1
Kamba	209	1.4	73.7	24.9	210	3.3	67.6	29.2
Eru	360	4.2	69.4	26.4	360	5.6	64.2	30.2
Ndere	330	4.2	77.3	18.5	324	7.4	72.2	20.4
Chuka	302	3.6	68.9	27.5	299	5.0	68.7	26.2
Muthambe	399	2.8	70.7	26.5	400	4.8	63.5	31.7
Mwimbi	215	4.7	70.2	25.1	215	6.0	67.4	26.6
Igoji	474	7.0	67.7	25.3	474	8.9	61.4	29.7
Imenti	195	6.1	71.3	24.6	195	9.2	62.6	28.2
Nigania	180	4.4	78.3	17.2	180	6.7	68.9	24.4
Igembe	164	8.5	75.1	16.4	165	8.1	66.7	25.2
Tharaka	330	5.7	67.0	27.4	330	7.8	68.7	23.5
Bokomo	450	8.2	67.5	24.2	450	10.0	62.8	27.1
Gichana	173	3.1	67.6	29.3	175	8.0	62.7	29.3
Chonyi	65	8.2	60.6	31.2	65	7.2	63.2	29.6
Wid Mijikenda	135	5.2	67.4	27.4	134	4.5	65.7	29.8
Digo	500	3.8	62.8	33.4	500	5.0	60.8	34.2
Taita	225	4.0	73.8	22.2	225	5.3	68.9	25.8
Taveta	239	6.3	64.0	29.7	239	7.9	65.4	26.7

Table AP. 1.4.34 : Distribution of indices of triradial intensity and the std angle in Kenyan minimal ethnic population samples (right hand males).

POPULATION	INTERDIGITAL			HYPOTHENAR			TOTAL PALMAR			TOTAL FINGER			ATD ANGLE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	222	8.243	0.676	222	1.342	0.546	222	5.635	0.936	222	6.739	1.763	220	36.5	4.9
HENDILLE	152	8.276	0.622	153	1.261	0.497	152	5.612	0.822	148	6.804	1.725	146	36.7	4.5
GABRA	27	8.250	0.447	25	1.360	0.569	25	5.720	0.792	25	6.992	1.543	25	36.4	4.8
BURAN	127	8.191	0.526	127	1.315	0.499	127	5.622	0.835	125	6.400	1.980	124	37.6	4.6
MURJI	64	8.313	0.687	64	1.266	0.479	64	5.856	1.057	64	6.813	1.745	64	37.6	4.4
SAMBUU	87	8.172	0.595	87	1.276	0.475	87	5.517	0.847	86	6.349	1.767	80	38.4	5.0
KADJADU MAASAI	63	8.333	0.596	63	1.349	0.572	63	5.746	0.822	63	6.476	1.786	63	37.7	4.2
MARSA MAASAI	36	8.222	0.485	36	1.333	0.535	36	5.583	0.732	35	6.171	2.079	36	36.1	4.9
NGWESI	41	8.220	0.475	41	1.244	0.435	41	5.902	1.179	41	6.659	1.543	40	38.5	4.1
MUKOGODD	39	8.184	0.512	38	1.263	0.503	38	5.579	0.869	38	6.068	1.647	38	38.8	4.7
KONY	37	8.162	0.553	36	1.306	0.467	36	5.594	0.856	37	5.593	1.707	33	36.8	4.0
NANDI	52	8.250	0.519	52	1.365	0.486	52	5.712	0.750	51	6.490	1.678	52	38.0	4.5
KIPSIGIS	57	8.298	0.654	56	1.179	0.386	56	5.496	1.060	55	6.564	2.007	57	38.5	5.0
TUGEN	108	8.093	0.375	105	1.257	0.501	104	5.310	0.824	105	6.198	1.775	101	38.9	4.2
KEYO	50	8.186	0.523	50	1.280	0.597	50	5.340	0.908	50	6.240	1.673	50	37.8	3.2
MARAKWET	50	8.320	0.587	49	1.224	0.422	49	5.673	0.851	50	6.500	1.487	50	37.2	3.6
POKOT	45	8.267	0.580	42	1.238	0.431	40	5.800	1.057	45	6.200	1.673	45	36.8	3.6
ITESO	52	8.346	0.556	52	1.365	0.627	52	5.827	0.879	52	5.923	1.294	52	40.1	5.6
TURKANA	65	8.385	0.700	61	1.344	0.513	60	5.683	1.043	63	6.714	2.143	64	37.7	4.3
LUO	170	8.453	0.660	170	1.359	0.528	170	5.929	0.970	166	6.356	1.662	168	39.9	5.1
GUSII	50	8.280	0.607	49	1.224	0.422	49	5.551	0.709	49	6.367	1.550	49	38.3	6.0
TIKELI	26	8.385	0.697	26	1.192	0.402	26	5.692	0.828	26	6.385	2.137	26	36.6	3.0
MARAGOLI	26	8.385	0.571	26	1.385	0.595	26	5.962	0.824	26	6.985	1.726	26	37.5	3.6
BUNDOME	30	8.533	0.619	30	1.067	0.254	30	5.633	0.809	29	6.793	1.624	30	36.6	4.9
LOAKHO	39	8.487	0.623	39	1.610	0.698	39	5.849	0.999	39	6.128	1.490	39	36.1	5.1
MARWA	25	8.446	0.583	25	1.160	0.374	25	5.680	0.802	25	7.320	1.651	25	38.6	5.0
WANGA	25	8.360	0.700	25	1.200	0.500	25	5.680	1.030	25	6.040	1.172	25	36.8	3.9
MARACH	25	8.400	0.577	25	1.400	0.500	25	5.880	0.681	25	6.400	2.062	25	38.8	5.0
BURRAYO	23	8.174	0.388	23	1.522	0.730	23	5.739	0.915	22	5.727	1.579	23	37.1	5.6
SANTA	24	8.125	0.741	24	1.292	0.484	24	5.417	0.929	24	6.288	2.126	24	37.2	5.7
BUTSOTSO	20	8.550	0.759	20	1.400	0.598	20	6.000	1.214	20	6.750	1.070	20	38.1	6.0
BUNTALA	25	8.360	0.757	25	1.360	0.569	25	5.600	1.041	25	6.168	1.072	25	37.1	4.9
KABRAS	26	8.192	0.491	26	1.260	0.533	26	5.500	0.648	25	6.800	1.481	26	39.2	5.3
KUKUSU	61	8.381	0.606	60	1.250	0.437	60	5.750	0.968	57	6.228	1.964	55	38.0	8.5
KIABU KIKUYU	64	8.264	0.570	64	1.328	0.565	64	5.888	0.852	64	6.422	1.743	63	38.6	4.5
MURANGA KIKUYU	56	8.393	0.731	56	1.268	0.586	56	5.829	1.219	54	6.453	1.767	56	36.6	5.0
NYERI KIKUYU	49	8.265	0.670	49	1.224	0.468	49	5.571	0.866	48	6.333	2.137	48	38.6	6.7
NOTA	56	8.393	0.679	56	1.232	0.667	56	5.696	0.893	56	6.125	1.526	53	38.8	4.6
KAMBA	78	8.346	0.621	77	1.364	0.560	77	5.818	0.996	73	6.274	1.592	69	38.0	4.1
EMBU	87	8.264	0.516	87	1.195	0.399	87	5.563	0.742	87	6.136	1.456	81	39.3	4.5
MBERE	64	8.406	0.684	64	1.234	0.463	64	5.944	1.171	63	6.429	1.864	64	40.6	5.5
CHUKA	75	8.147	0.456	73	1.137	0.346	73	5.370	0.697	75	6.453	1.605	70	40.2	5.4
MUTHAMBI	76	8.316	0.716	76	1.243	0.564	76	5.771	0.966	76	6.474	1.701	72	40.2	5.2
MUTHARI	61	8.197	0.601	57	1.246	0.474	56	5.506	0.763	59	5.687	1.529	59	38.3	5.2
IGODI	78	8.333	0.658	78	1.342	0.478	76	5.776	0.974	75	6.200	1.685	70	39.1	5.2
INENI	61	8.230	0.529	60	1.267	0.446	60	5.600	0.764	61	6.443	1.727	57	37.0	4.8
TIGANIA	64	8.203	0.568	64	1.261	0.487	64	5.625	0.882	64	6.219	1.732	62	37.3	4.2
IGEMBE	66	8.197	0.561	66	1.136	0.346	66	5.591	1.037	64	6.422	1.489	65	39.6	4.3
THARAKA	54	8.370	0.623	54	1.352	0.520	54	5.889	0.853	54	6.389	2.149	54	39.8	6.0
POKOND	114	8.325	0.572	114	1.307	0.482	114	5.719	0.857	93	6.247	1.810	112	40.2	5.6
MALAKOTE	40	8.500	0.641	39	1.410	0.549	39	6.026	0.883	39	6.504	1.861	40	39.4	4.7
GINTAMA	64	8.391	0.704	64	1.219	0.417	64	5.766	1.020	49	6.510	1.745	62	38.8	6.1
CHONYI	79	8.582	0.672	79	1.226	0.530	79	6.038	1.148	79	6.392	1.613	75	39.4	5.2
WED MJI KENYA	32	8.469	0.879	32	1.261	0.457	32	6.261	1.150	32	6.625	2.075	30	38.5	3.1
UISO	116	8.405	0.672	116	1.319	0.521	116	5.862	1.046	116	6.681	1.802	109	38.8	4.9
TALITA	52	8.462	0.727	52	1.615	0.661	52	6.231	1.022	55	5.856	1.500	50	38.9	4.1
TAVETA	59	8.407	0.646	59	1.304	0.502	56	5.839	0.910	57	5.807	2.175	57	37.8	4.7

Table AP. 1.3.35 : Distribution of indices of triradial intensity and the atd angle in Kenyan minimal ethnic population samples (left hand males).

POPULATION	INTERDIGITAL		HYPOTHENAR		TOTAL PALMAR		TOTAL FINGER		ATO ANGLE						
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD			
SOMALI	224	4.228	0.612	224	1.272	0.494	223	5.731	1.031	224	6.554	1.743	221	36.9	5.0
RENDILLE	150	4.293	0.606	152	1.263	0.471	149	5.711	0.903	148	6.520	1.893	142	36.8	5.0
GABBARA	27	4.146	0.436	26	1.308	0.471	26	5.492	0.884	27	6.370	1.597	27	37.7	5.7
BORAN	127	4.220	0.590	127	1.307	0.512	127	5.756	0.974	127	6.220	2.019	125	37.8	4.8
BURJI	64	4.375	0.745	64	1.141	0.350	64	5.672	1.085	64	7.047	1.963	63	38.4	4.0
SAMHURU	87	4.195	0.662	86	1.233	0.425	86	5.570	0.965	85	6.435	1.700	84	38.7	5.2
KADJADU MAASAI	63	4.302	0.526	63	1.206	0.461	63	5.778	0.924	63	6.266	1.870	63	37.1	3.6
NAROK MAASAI	36	4.167	0.447	36	1.167	0.374	36	5.528	0.941	36	5.917	1.033	36	35.9	4.4
NGWESJ	41	4.244	0.489	40	1.250	0.439	40	6.025	1.165	40	6.575	1.693	39	38.4	4.1
MUKOGODJI	38	4.342	0.627	38	1.249	0.460	38	5.695	1.134	38	6.763	1.822	37	37.2	4.1
KONY	37	4.216	0.417	36	1.167	0.378	36	5.944	0.984	37	5.405	1.936	37	38.5	6.9
NANDI	52	4.250	0.437	52	1.212	0.412	52	5.942	1.178	52	6.268	1.455	51	38.4	4.6
KIPSIGIS	57	4.298	0.597	57	1.156	0.366	57	5.982	1.203	55	6.527	2.168	57	38.0	4.9
TIGEM	108	4.120	0.526	107	1.178	0.384	106	5.726	1.038	106	6.132	1.735	104	38.1	3.9
KEYO	50	4.220	0.582	50	1.200	0.404	50	5.600	0.926	49	6.143	1.883	50	37.7	3.5
MARAKWET	50	4.260	0.565	49	1.143	0.354	49	5.776	1.123	50	6.360	1.549	50	36.5	3.9
PIKOT	45	4.244	0.484	42	1.143	0.354	41	5.756	1.019	43	5.721	1.517	45	36.9	3.2
LTESD	52	4.442	0.639	52	1.327	0.513	52	6.250	1.312	52	5.808	1.715	52	41.2	7.4
TURKANA	66	4.424	0.634	59	1.271	0.465	59	6.102	1.309	65	6.308	2.038	66	37.4	4.4
LUO	169	4.491	0.725	169	1.243	0.457	169	6.302	1.340	170	6.271	1.839	168	40.0	5.4
GUSII	50	4.360	0.693	50	1.140	0.351	50	5.860	1.088	50	6.240	1.572	49	37.9	5.0
TERIKI	26	4.308	0.618	26	1.192	0.402	26	5.885	1.143	26	5.923	1.978	26	36.4	3.9
MARAGOLI	26	4.077	0.684	26	1.192	0.402	26	5.885	1.143	26	5.923	1.978	26	36.7	3.5
BUNDURE	30	4.433	0.679	30	1.160	0.305	30	5.800	1.031	30	6.357	1.933	30	38.6	4.6
IDAKHO	39	4.304	0.694	39	1.282	0.510	39	6.256	1.446	39	5.744	1.499	39	37.2	4.3
MARAMA	25	4.460	0.714	25	1.080	0.277	25	6.160	0.987	25	6.680	1.520	25	39.7	4.0
WANGA	25	4.400	0.645	25	1.240	0.523	25	6.040	1.207	25	5.920	1.152	25	38.2	4.6
MARACH	25	4.440	0.768	25	1.200	0.406	25	6.080	1.162	25	6.160	2.154	25	40.0	7.6
BUKHAYD	23	4.304	0.635	23	1.304	0.635	23	5.852	0.832	23	5.826	1.800	23	38.2	4.0
SANIA	24	4.250	0.609	24	1.208	0.415	24	6.043	1.176	24	5.875	1.650	24	39.2	3.3
BUTSOTSO	20	4.450	0.605	20	1.500	0.688	20	6.200	1.105	20	6.950	0.826	20	38.8	5.2
BUNYALA	25	4.520	0.672	25	1.200	0.408	25	6.480	1.475	24	6.208	1.817	25	38.6	3.7
KABRAS	26	4.308	0.560	26	1.231	0.314	26	5.692	0.768	26	6.346	1.599	26	39.6	4.9
BUKUSU	61	4.279	0.488	60	1.200	0.443	60	5.893	1.121	59	5.847	1.874	60	37.6	4.5
KIAMBU KIKUYU	65	4.292	0.579	65	1.262	0.477	65	5.785	0.992	67	6.302	1.837	64	39.0	4.8
MURANGA KIKUYU	56	4.339	0.695	56	1.232	0.467	56	6.143	1.368	56	6.500	1.799	54	39.7	4.9
NYERI KIKUYU	49	4.204	0.577	49	1.143	0.354	49	5.735	0.953	48	6.125	2.199	48	39.4	4.7
NOTIA	56	4.268	0.556	56	1.179	0.366	56	5.804	0.961	55	6.036	1.990	55	37.4	4.1
KAMBA	78	4.321	0.634	77	1.351	0.623	77	6.091	1.205	74	6.405	1.879	74	38.2	4.4
EMBU	87	4.310	0.535	86	1.244	0.466	86	5.837	1.027	87	5.759	1.880	86	38.2	5.9
MWERE	64	4.359	0.651	63	1.190	0.435	63	6.095	1.214	63	6.444	1.812	63	40.8	6.7
CHUKA	75	4.187	0.456	71	1.113	0.314	71	5.620	0.947	75	6.453	1.638	74	40.0	5.2
MUTHAMBI	75	4.200	0.735	72	1.250	0.494	71	5.873	1.298	75	6.320	1.710	72	39.3	5.5
MWIMBI	62	4.210	0.484	56	1.266	0.494	55	6.000	1.106	60	5.983	1.722	57	38.5	5.3
IGODJI	78	4.244	0.706	72	1.292	0.568	72	5.803	1.313	77	6.247	1.920	71	39.0	5.1
IGENTIA	61	4.393	0.761	59	1.085	0.281	59	5.763	1.194	60	6.367	1.813	60	37.0	5.2
FIGANIA	64	4.313	0.687	64	1.188	0.432	64	5.781	1.076	63	5.889	1.733	63	37.0	4.5
IGEMBE	66	4.212	0.645	64	1.156	0.407	64	5.844	1.312	63	6.190	1.635	66	39.9	4.8
THARAKA	54	4.185	0.552	54	1.204	0.407	54	5.870	1.150	53	6.208	2.205	53	39.6	5.4
POKOMO	114	4.237	0.584	114	1.325	0.524	114	5.804	1.129	91	6.044	2.043	112	41.1	6.5
MALAKOTIE	41	4.463	0.778	40	1.175	0.385	40	5.900	1.105	47	6.000	1.688	41	39.4	5.3
GIRIAMA	64	4.359	0.721	64	1.203	0.443	64	6.047	1.240	47	6.255	1.905	63	38.2	5.4
CHINYI	79	4.456	0.656	79	1.228	0.479	79	6.190	1.397	76	6.224	1.778	78	39.2	4.6
MID W. JI *ENDA	32	4.531	0.803	32	1.344	0.483	32	6.375	1.314	32	6.500	2.095	31	38.7	4.2
UJIGO	116	4.310	0.624	114	1.298	0.478	114	6.035	1.204	116	6.474	1.752	115	38.9	5.3
TAITA	55	4.291	0.737	55	1.436	0.501	55	6.182	1.203	54	5.722	1.742	52	39.8	4.0
TAVETA	59	4.288	0.589	59	1.203	0.406	59	5.915	1.103	54	5.500	2.126	56	39.7	4.8

Table AP. 1.4.36 : Distribution of indices of triradial intensity and the atd angle in Kenyan minimal ethnic population samples (right hand females).

POPULATION	INTERDIGITAL			HYPOTHENAR			TOTAL PALMAR			TOTAL FINGER			ATD ANGLE		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	103	4.214	0.521	101	1.248	0.498	101	5.594	0.827	103	6.456	1.719	99	38.7	5.1
RENDILLE	46	4.293	0.621	46	1.435	0.620	46	5.761	0.923	45	6.778	1.808	46	34.9	5.1
GABRA	63	4.111	0.512	63	1.270	0.582	63	5.492	0.780	60	6.733	1.645	61	39.6	4.3
BORAN	60	4.117	0.372	60	1.250	0.537	60	5.517	0.813	58	5.741	1.974	59	38.2	4.9
BURJI	57	4.193	0.515	57	1.351	0.551	57	5.719	0.774	57	6.263	2.224	57	41.0	4.0
SAMBURU	45	4.152	0.515	45	1.261	0.491	45	5.587	0.884	43	6.302	1.974	42	40.6	6.5
KADJIAO MAASAI	150	4.290	0.646	150	1.260	0.465	150	5.827	1.038	148	6.959	2.197	148	37.4	5.0
KONY	23	4.304	0.589	23	1.261	0.449	23	5.800	1.044	21	5.435	1.199	23	39.5	4.0
NANDI	50	4.180	0.596	48	1.229	0.472	48	5.878	1.084	50	6.080	2.146	50	40.7	4.7
KIPISIGIS	43	4.163	0.754	42	1.214	0.515	42	5.667	1.300	43	6.000	2.047	43	38.1	4.3
TUGEN	101	4.149	0.498	100	1.220	0.462	100	5.770	1.090	101	6.099	1.404	101	39.6	4.5
KEYO	50	4.240	0.517	50	1.220	0.465	50	5.950	1.087	50	6.120	1.698	50	40.6	5.2
MARAKWET	56	4.125	0.507	56	1.214	0.414	55	5.764	1.105	56	6.036	1.972	55	37.7	3.9
POKOT	51	4.113	0.423	50	1.160	0.436	49	5.910	0.914	52	6.036	2.223	52	39.4	5.7
IFESD	47	4.298	0.507	47	1.255	0.488	47	5.766	0.840	47	6.106	1.856	47	39.9	6.1
TURKANA	43	4.279	0.549	43	1.442	0.590	43	6.186	1.160	42	5.857	2.079	42	39.5	4.9
LUO	107	4.299	0.602	107	1.262	0.442	107	5.991	1.137	107	6.243	1.999	107	41.3	5.0
GUSII	51	4.275	0.635	51	1.255	0.493	51	5.843	1.007	51	6.196	2.289	51	39.3	4.0
TIRIKI	25	4.400	0.577	25	1.200	0.580	25	6.200	1.080	25	6.200	1.683	25	40.2	5.9
MARAGOLI	24	4.333	0.565	24	1.292	0.550	24	5.792	0.779	24	6.208	1.532	23	40.6	5.1
MUNDORO	20	4.100	0.553	20	1.350	0.499	20	5.950	1.234	19	5.474	1.389	19	42.6	7.3
IRAKHO	15	4.333	0.616	15	1.267	0.458	15	6.067	1.307	15	5.933	1.710	15	38.6	5.7
MARAKA	25	4.160	0.624	25	1.360	0.638	25	5.880	0.988	25	6.440	2.142	24	38.9	4.2
WANGA	24	4.250	0.794	24	1.208	0.509	24	5.833	1.204	24	5.625	2.018	24	41.0	5.6
MURACH	26	4.167	0.482	26	1.167	0.381	26	5.583	0.830	24	6.167	1.579	24	40.6	4.0
MUKHAYO	26	4.269	0.667	26	1.231	0.430	26	6.000	1.058	26	5.923	1.765	26	39.0	5.1
SANIA	26	4.154	0.732	26	1.231	0.514	26	5.634	1.066	26	6.108	2.112	26	40.8	5.8
MUSITISO	27	4.222	0.506	27	1.185	0.398	27	5.867	0.734	27	5.943	1.829	27	41.5	4.2
MUNTALA	25	4.200	0.608	25	1.040	0.280	25	5.480	0.853	27	5.943	1.829	27	41.5	4.2
KABRAS	26	4.385	0.637	26	1.192	0.402	26	5.868	1.008	26	5.942	1.865	26	38.2	4.6
MUKUSU	29	4.310	0.541	29	1.345	0.684	29	5.724	0.649	29	5.760	1.665	29	38.1	4.2
KIAMBU KIKUYU	39	4.103	0.552	39	1.231	0.427	39	5.641	0.932	38	5.068	2.549	39	41.4	6.9
MURANGA KIKUYU	46	4.217	0.664	46	1.348	0.604	46	5.804	1.067	46	5.696	2.075	46	41.2	6.0
NYERI KIKUYU	51	4.118	0.553	51	1.118	0.325	51	5.569	0.876	51	5.941	1.870	50	39.7	3.8
NOIA	66	4.182	0.524	66	1.167	0.414	66	5.788	1.157	66	6.197	1.888	64	39.0	4.7
KAMBA	42	4.190	0.505	37	1.216	0.479	37	5.764	1.228	42	6.310	1.584	40	41.0	5.6
EMBU	72	4.181	0.539	72	1.194	0.399	72	5.708	0.999	72	6.236	1.724	69	40.9	5.6
MBERE	66	4.161	0.571	66	1.258	0.474	66	5.652	0.953	64	5.672	1.691	66	41.0	5.9
CHUKA	61	4.164	0.522	59	1.203	0.446	59	5.878	0.973	58	6.603	1.991	60	42.4	5.3
MUTHAMBI	83	4.205	0.612	79	1.241	0.459	79	5.709	0.850	80	6.375	1.664	82	39.4	5.2
MWIMBI	40	4.200	0.516	39	1.343	0.539	35	5.629	0.806	43	6.070	1.466	39	39.5	4.7
IGODJI	95	4.147	0.412	95	1.263	0.443	95	5.758	1.069	94	6.021	2.016	91	41.3	5.5
IMENITI	39	4.179	0.556	39	1.333	0.478	39	5.821	1.048	39	5.989	2.176	39	39.5	4.7
TIGANIA	36	4.389	0.599	36	1.194	0.401	36	6.056	1.094	36	5.889	1.848	35	37.6	3.1
IGEMBE	33	4.152	0.364	33	1.242	0.435	33	5.667	0.957	33	5.848	1.805	33	42.7	4.4
THARAKA	46	4.174	0.486	46	1.130	0.341	46	5.674	0.920	46	6.356	2.001	46	40.6	4.8
POKOMO	40	4.256	0.439	40	1.233	0.425	40	5.869	1.043	40	5.869	2.142	40	42.3	5.2
GIATAMA	38	4.237	0.590	38	1.368	0.469	38	6.079	1.260	34	5.862	1.981	36	40.6	5.7
CHONYI	14	4.357	0.633	14	1.143	0.335	14	6.143	1.231	13	5.615	2.142	14	41.9	7.3
MID WJI KENYA	27	4.222	0.577	27	1.148	0.362	27	5.963	1.224	26	6.308	1.871	27	39.6	4.3
DIGO	100	4.270	0.649	100	1.300	0.482	100	6.060	1.301	100	6.970	1.992	98	40.9	5.7
TAITA	45	4.400	0.618	45	1.467	0.548	45	6.178	1.284	45	6.044	1.731	44	41.2	4.2
TAVERA	48	4.167	0.781	48	1.208	0.410	48	5.563	1.029	47	6.298	2.349	48	42.8	5.0

Table AP. 1.4.37 : Distribution of indices of triradial intensity and the atd angle in Kenyan minimal ethnic population samples (left hand females).

POPULATION	INTERDIGITAL				HYPOTHENAR				TOTAL PALMAR				TOTAL FINGER				ATD ANGLE			
	NO		SD		NO		SD		NO		SD		NO		SD		NO		SD	
	MEAN	SD	MEAN	SD	MEAN	SD	MEAN	SD	MEAN	SD	MEAN	SD	MEAN	SD	MEAN	SD	MEAN	SD	MEAN	SD
SOMALI	103	4.105	0.544	103	1.369	0.524	103	5.593	0.786	103	6.437	1.667	102	38.1	4.5					
RENDILLE	44	4.227	0.005	44	1.356	0.484	44	5.591	0.726	44	6.465	1.579	43	39.1	5.0					
GABRA	63	4.175	0.555	61	1.262	0.444	61	5.475	0.648	61	6.556	1.672	62	39.2	4.9					
ODAR	50	4.220	0.589	59	1.237	0.429	59	5.593	1.116	59	6.750	1.861	57	36.5	5.0					
BURJI	57	4.228	0.535	57	1.306	0.559	57	5.737	0.635	55	6.200	1.900	57	40.8	4.1					
SAMBUHU	45	4.244	0.570	45	1.333	0.564	45	5.600	0.937	45	6.273	1.561	45	39.6	5.4					
KADUJAU MAASAI	150	4.200	0.591	150	1.347	0.567	150	5.680	0.916	150	6.107	1.977	150	38.3	5.4					
KONY	23	4.087	0.288	22	1.318	0.558	22	5.682	0.945	22	5.622	1.238	22	39.4	4.1					
NAYOI	50	4.140	0.495	48	1.292	0.458	48	5.729	1.026	50	5.640	2.091	50	39.7	4.6					
KIPSIGIS	43	4.256	0.759	42	1.238	0.431	42	5.643	1.100	43	5.837	1.838	43	38.4	4.3					
TUGEN	102	4.167	0.447	102	1.284	0.495	102	5.598	0.893	102	6.049	1.277	98	39.6	4.2					
KEYO	50	4.160	0.560	50	1.380	0.502	50	5.840	1.231	50	5.580	1.444	50	40.7	4.5					
MAKAKMET	50	4.101	0.505	50	1.286	0.444	50	5.606	1.159	50	5.830	1.627	54	38.0	3.7					
POKOT	54	4.074	0.328	51	1.353	0.627	51	5.510	0.925	52	5.981	1.777	52	39.5	6.4					
ITESO	47	4.213	0.463	47	1.340	0.532	47	5.617	0.709	47	6.149	1.853	45	39.4	6.4					
TURKANA	42	4.206	0.636	42	1.337	0.577	42	5.714	0.891	40	6.000	1.935	40	40.0	5.6					
LDO	107	4.374	0.694	107	1.336	0.475	107	5.935	1.066	107	6.224	1.850	107	41.4	5.3					
GUSII	51	4.412	0.779	51	1.216	0.415	51	5.705	0.965	50	6.180	1.903	50	39.4	4.2					
TERIKI	25	4.320	0.557	25	1.400	0.643	25	5.960	0.869	25	6.000	1.382	25	40.8	5.4					
MAHAGOLI	24	4.292	0.550	24	1.208	0.415	24	5.583	0.776	24	5.958	1.601	24	40.8	5.7					
HUNDRE	20	4.100	0.308	20	1.250	0.444	20	5.650	0.813	20	6.050	1.234	20	41.0	6.5					
IDAKHO	15	4.333	0.816	15	1.667	0.743	15	6.267	1.436	15	6.800	1.207	15	37.6	4.9					
MARAMA	25	4.160	0.638	25	1.400	0.665	25	5.760	1.012	25	6.240	1.943	24	37.6	4.2					
WANGA	24	4.333	0.917	24	1.167	0.391	24	5.542	0.977	24	5.708	1.829	23	41.2	5.4					
MARACH	24	4.083	0.504	24	1.292	0.550	24	5.417	0.881	24	5.750	1.452	23	38.3	4.4					
BUKHAID	20	4.306	0.618	20	1.231	0.430	20	5.769	0.981	20	6.046	1.617	20	39.0	6.0					
SAMIA	26	4.192	0.567	26	1.269	0.533	26	5.692	1.087	26	6.346	1.843	26	39.0	5.2					
BUTSOTSD	27	4.185	0.557	27	1.222	0.424	27	5.566	0.751	27	5.556	1.311	27	41.0	4.5					
HUNTALA	25	4.240	0.523	25	1.240	0.436	25	5.684	0.932	25	6.800	2.000	24	37.5	4.9					
KABNAS	26	4.423	0.643	26	1.192	0.402	26	5.684	0.689	26	6.308	1.666	26	40.0	5.4					
RUKUSU	29	4.138	0.441	29	1.448	0.572	29	5.600	0.891	27	5.704	1.463	28	36.8	3.3					
KIAMBU KIKUYU	39	4.179	0.451	39	1.333	0.478	39	5.615	0.747	38	5.947	2.205	38	40.5	6.8					
MURANGA KIKUYU	46	4.130	0.400	46	1.283	0.502	46	5.413	0.617	46	5.717	2.029	46	40.2	4.9					
NYERI KIKUYU	51	4.176	0.633	51	1.176	0.395	51	5.413	0.829	51	5.804	1.600	50	39.1	3.9					
NOTA	65	4.152	0.533	65	1.197	0.401	65	5.621	1.019	65	6.136	1.672	65	39.9	4.9					
KANBA	42	4.190	0.505	42	1.286	0.508	42	5.619	0.982	42	6.193	1.249	42	41.0	5.6					
EMBU	72	4.167	0.475	72	1.225	0.453	72	5.611	1.478	69	6.107	1.478	69	40.7	5.6					
MWERE	66	4.227	0.549	66	1.227	0.422	66	5.591	0.841	68	5.727	1.473	68	41.6	5.9					
CHUKA	61	4.096	0.473	60	1.350	0.587	60	5.667	0.877	60	6.167	1.748	57	41.8	5.1					
MUTAMBI	83	4.266	0.586	80	1.212	0.481	80	5.512	0.811	79	6.165	1.454	82	40.9	4.5					
MWIMBI	40	4.300	0.564	36	1.333	0.474	36	5.732	0.779	43	6.023	1.566	38	41.1	5.2					
IGUJI	95	4.211	0.475	95	1.253	0.481	95	5.590	0.805	94	5.904	1.918	89	40.6	5.0					
IMENTI	39	4.256	0.437	39	1.333	0.530	39	5.590	0.818	39	6.051	1.654	38	39.7	5.2					
TIGANIA	38	4.278	0.701	36	1.278	0.434	36	5.639	0.880	36	6.339	1.367	34	37.6	3.8					
IGEMBE	33	4.212	0.545	33	1.242	0.495	33	5.697	0.984	32	5.438	1.625	32	41.3	3.9					
THAKA	46	4.087	0.354	46	1.261	0.491	46	5.457	0.780	46	6.087	1.824	46	41.4	5.4					
POKIMO	90	4.278	0.581	89	1.281	0.478	89	5.719	1.011	90	5.800	1.915	88	42.0	5.2					
GIRIAMA	38	4.316	0.620	37	1.351	0.464	37	5.919	0.954	37	5.879	1.980	37	42.1	6.5					
CHONYI	14	4.420	0.756	14	1.214	0.579	14	5.929	1.072	13	5.923	2.100	13	40.8	7.2					
MIO MJI KENDA	27	4.259	0.554	27	1.259	0.447	27	5.741	1.023	27	6.111	1.577	27	39.2	4.9					
UIGO	100	4.310	0.596	100	1.330	0.514	100	5.760	1.006	100	7.000	1.860	97	40.9	5.2					
TATTA	45	4.467	0.661	45	1.449	0.549	45	6.044	0.999	45	6.956	1.537	45	39.5	4.7					
TAVETA	47	4.234	0.666	47	1.340	0.532	47	5.617	0.945	47	6.191	2.028	46	40.9	5.0					

Table AP. 1.4.38 : Distribution of palmar ridge counts in Kenyan minimal ethnic population samples (males).

Right Hand

Left Hand

POPULATION	AR RIDGE COUNT			BC RIDGE COUNT			CD RIDGE COUNT			AB RIDGE COUNT			AC RIDGE COUNT			CD RIDGE COUNT			TOTAL PALMAR RC		
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD
SOMALI	220	35.9	6.1	196	25.1	6.0	200	35.6	5.5	223	36.0	6.3	208	25.8	6.0	204	35.5	6.3	222	95.3	15.1
RENDILLE	139	35.9	5.7	132	24.7	5.0	130	35.0	4.6	137	36.6	6.0	131	24.7	5.3	126	35.3	5.6	130	96.2	12.2
GABRA	23	36.4	9.0	23	25.9	6.4	23	35.5	7.1	23	35.3	10.5	23	27.2	7.4	26	35.3	7.2	26	97.4	15.3
BORAN	119	36.2	5.1	114	25.7	5.7	110	35.9	6.3	113	36.8	12.8	113	26.1	5.9	115	36.5	6.1	122	98.4	13.0
RURJI	61	34.5	4.8	60	24.9	5.0	60	36.2	4.7	59	35.6	10.6	58	24.4	4.2	58	35.4	6.3	57	95.6	11.7
SAMBURU	77	36.5	5.5	75	24.5	5.8	69	35.1	5.2	71	36.6	13.2	73	24.7	5.5	72	34.6	5.9	77	93.9	12.3
KAUJADDO MAASAI	63	37.7	3.4	61	25.7	5.0	61	37.2	9.5	63	37.8	8.3	56	25.1	5.3	56	37.0	7.1	63	99.0	14.2
NAROK MAASAI	36	36.9	7.6	33	26.0	6.1	33	37.3	5.6	36	37.3	16.9	35	24.8	6.4	34	37.0	6.6	34	98.8	14.6
NGWESI	37	34.5	5.1	40	24.9	5.4	39	35.6	7.0	36	36.1	9.4	38	25.5	5.0	35	37.6	6.0	36	98.3	11.4
MUKOGODO	36	37.2	4.8	36	25.6	4.8	36	35.8	5.5	35	36.6	8.9	38	24.8	5.2	36	36.1	5.1	37	97.6	10.1
KONY	37	37.2	5.3	35	26.5	5.6	35	36.7	5.9	37	36.8	13.7	37	24.8	5.0	34	36.6	5.7	36	99.3	14.0
MANDI	52	36.0	4.8	50	26.0	5.9	50	35.7	5.8	52	37.1	12.9	46	26.7	4.9	48	35.5	5.2	52	98.5	11.7
KIPSIGIS	57	35.5	4.8	54	26.1	4.9	54	35.7	5.4	57	36.5	11.7	52	25.8	6.0	51	36.3	6.4	52	97.4	13.2
KEVO	49	38.2	6.1	94	26.3	5.3	92	35.2	5.2	86	36.5	12.4	92	27.6	5.1	94	35.6	5.7	96	101.2	13.0
MAKARET	40	38.2	5.8	43	25.9	5.9	45	37.2	6.3	49	38.6	5.1	44	26.1	5.6	44	35.6	6.7	49	100.2	13.9
POKOT	42	37.8	4.6	40	27.8	5.0	40	35.0	5.2	42	38.2	12.1	49	25.8	5.9	49	36.9	6.3	50	98.0	14.6
ITESO	50	36.3	5.9	49	26.7	4.9	49	37.1	3.8	50	37.4	11.2	44	26.0	5.0	43	35.7	6.9	44	98.3	13.4
TUKANA	62	36.3	5.2	59	26.3	5.5	58	35.3	5.2	60	37.2	10.7	54	27.0	4.7	59	36.2	4.8	61	98.8	11.3
LUO	155	36.7	4.9	144	27.4	5.7	145	36.0	4.7	156	37.9	4.4	140	26.9	5.9	139	36.1	5.6	155	99.2	13.0
GUSII	50	37.7	5.6	44	26.5	4.7	44	35.4	5.3	47	38.6	11.3	49	26.8	5.5	46	35.7	6.3	48	98.5	12.0
TIRIKI	26	38.2	6.2	24	27.2	5.7	24	36.2	6.1	25	39.3	15.7	26	27.6	5.3	25	35.3	7.6	25	102.2	15.6
MARAGOLI	26	35.5	4.4	25	25.3	5.7	25	36.6	6.5	25	35.3	14.6	26	26.3	4.1	26	35.3	7.3	24	96.9	13.0
BUNYORE	29	34.8	3.4	30	25.7	6.1	30	33.9	5.9	29	34.4	7.9	30	26.2	5.0	25	36.1	5.5	30	93.9	10.0
IDAKHO	39	37.4	4.0	35	25.9	5.2	35	36.8	4.1	39	37.2	13.7	39	26.2	5.0	34	33.7	6.0	39	95.0	12.3
MARAWA	24	38.4	5.5	22	28.8	6.0	22	36.6	8.0	23	38.3	10.2	23	28.2	6.5	23	35.8	8.3	25	101.4	11.7
WANGA	25	37.0	4.9	23	28.7	5.4	22	37.5	6.7	24	38.1	11.7	25	29.7	5.4	22	36.2	7.5	25	100.9	13.4
WARACH	25	35.6	7.4	23	27.5	4.6	23	36.3	3.2	25	37.1	4.8	22	29.7	5.4	22	36.2	7.5	25	100.9	13.4
BUNYAYO	23	36.5	7.1	20	26.8	4.6	20	36.5	3.8	22	37.6	5.2	20	27.0	4.2	20	35.4	6.5	23	98.3	8.0
SARIA	24	38.4	4.5	20	27.6	4.8	20	36.5	6.0	23	38.0	10.7	24	27.2	4.8	21	34.3	6.4	24	98.0	12.8
BUTSOTSO	20	38.3	5.1	20	27.5	5.2	19	36.6	4.9	19	38.2	12.1	20	27.6	7.5	19	34.3	6.4	20	98.5	14.8
BUNYALA	26	37.6	4.3	21	29.4	6.1	20	39.9	5.2	24	38.4	11.7	25	28.5	5.9	22	38.7	7.4	25	108.1	13.5
KABRAS	26	37.5	5.2	23	27.1	6.1	23	35.9	4.5	24	38.5	9.0	26	25.8	5.0	23	34.3	4.4	26	97.7	10.0
BUKUSU	51	34.5	4.4	44	25.6	4.7	43	33.2	4.9	47	35.9	11.0	43	26.9	4.4	43	34.1	6.6	48	95.2	12.5
KIAMBU KIKUYU	63	36.4	5.9	60	27.5	5.4	63	35.9	4.6	60	38.6	10.3	52	27.6	5.8	50	36.6	6.3	62	101.7	12.3
MURANGA KIKUYU	55	39.1	5.9	53	29.3	4.7	53	39.0	7.1	54	38.7	14.4	56	29.1	5.2	54	39.2	7.0	55	107.2	14.4
NYERI KIKUYU	48	36.4	6.0	46	26.6	5.4	45	36.7	6.1	48	37.3	5.5	48	27.4	5.4	47	37.4	6.3	47	100.9	13.3
NOLIA	51	37.5	6.4	46	26.2	5.2	44	36.1	5.4	45	37.0	12.5	48	26.5	5.5	47	35.5	5.6	48	98.4	11.9
KANBA	60	36.2	5.1	57	26.5	5.9	58	36.6	4.1	54	38.5	11.2	51	27.0	5.2	50	35.6	5.4	60	99.0	12.9
EMBU	84	36.3	5.1	79	26.5	5.9	78	34.3	5.1	80	37.3	11.3	66	27.0	5.2	58	35.6	5.4	80	99.0	12.9
MBERE	55	36.3	4.7	54	26.1	4.8	54	35.1	4.2	56	36.5	10.1	53	26.7	5.2	54	35.3	4.1	62	96.4	12.1
CHUKA	65	35.0	5.4	63	24.4	5.0	64	33.6	4.2	62	36.1	10.4	63	26.7	5.1	63	35.3	6.1	71	93.7	12.2
MUTHAMBI	72	37.2	5.7	65	26.9	5.9	66	36.5	6.0	70	37.1	13.1	71	26.4	5.4	68	35.4	5.4	71	93.7	12.2
MUTHAMBI	56	37.1	6.5	55	27.9	6.1	54	36.0	4.8	56	37.6	12.0	62	26.4	5.1	62	35.6	6.5	64	98.9	13.0
IGUJI	74	35.0	5.6	63	25.3	5.4	64	34.9	5.7	71	36.6	12.5	60	27.4	5.7	57	35.8	6.5	64	100.0	13.4
INYEI	59	32.7	6.2	51	23.7	4.4	53	34.1	4.5	55	35.4	12.5	57	26.9	5.7	54	35.6	6.5	56	100.0	13.4
TIGANIA	64	36.9	6.1	61	27.2	5.2	60	37.2	5.7	61	38.4	11.7	60	27.4	5.6	59	37.0	5.9	63	102.3	12.7
IGEMBE	56	36.8	5.8	59	25.3	4.9	59	34.2	5.2	59	34.5	12.9	64	27.4	5.6	59	37.0	5.9	63	102.3	12.7
THARAKA	54	37.0	5.4	52	27.0	5.4	52	35.9	5.9	53	36.7	12.9	57	27.1	4.9	49	36.0	6.5	63	95.2	13.2
POKOMO	110	35.4	6.3	100	25.6	4.4	99	34.5	5.2	101	34.7	12.2	111	26.7	4.3	100	35.4	6.3	103	97.1	13.0
MALAKOTE	40	36.3	5.5	40	26.1	5.6	40	35.6	4.7	40	36.3	11.2	38	25.5	5.4	39	35.4	6.3	39	95.4	9.4
GIPIANI	75	34.1	5.0	69	26.0	5.2	70	33.4	4.4	71	34.1	10.8	62	25.9	4.2	56	35.3	6.1	55	95.6	11.4
CHONYI	75	34.1	5.0	69	26.0	5.2	70	33.4	4.4	71	34.1	10.8	62	25.9	4.2	56	35.3	6.1	55	95.6	11.4
MID MJI KENDA	31	34.6	4.7	26	26.2	3.0	25	34.0	4.0	30	35.7	9.2	31	26.7	6.1	26	33.7	5.0	31	93.3	9.4
DIGO	106	36.5	5.1	105	27.1	4.8	106	36.7	4.4	99	36.9	11.1	109	27.6	5.2	103	36.7	5.7	107	101.2	12.2
TAITA	49	37.0	5.4	44	26.2	5.6	46	33.7	5.4	44	36.7	11.6	52	26.6	5.7	46	35.9	6.5	48	98.1	12.1
TAIVETA	55	36.0	6.3	51	25.3	5.3	49	34.2	6.4	49	37.4	5.6	50	26.1	5.5	51	34.3	5.6	54	97.4	11.0

Table AP. 1.4.39 : Distribution of palmar ridge counts in Kenyan minimal ethnic population samples (females).

Right Hand

Left Hand

POPULATION	AR RIDGE COUNT			BC RIDGE COUNT			CD RIDGE COUNT			AH RIDGE COUNT			BC RIDGE COUNT			CD RIDGE COUNT			TOTAL PALMAR RC			
	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	NO	MEAN	SD	
SOMALI	103	36.4	4.2	97	25.1	4.8	96	35.5	6.0	102	96.4	10.5	103	38.7	5.4	97	26.0	4.9	93	35.0	6.3	
RENDILLE	40	35.8	5.2	38	23.9	6.1	40	35.6	4.7	39	94.5	12.6	42	35.3	5.2	39	24.1	6.2	39	35.3	5.0	
GABHRA	61	34.9	4.7	60	25.3	4.8	59	35.2	5.1	60	94.8	9.9	62	36.2	4.9	56	26.3	4.6	52	34.8	5.9	
BORAN	58	36.4	4.8	55	25.6	5.2	55	35.7	5.7	58	96.7	10.9	57	35.2	5.2	57	25.5	5.2	55	35.3	6.6	
BURJI	54	37.4	5.1	53	25.8	5.2	53	36.6	5.8	54	100.4	11.3	54	36.9	4.6	53	26.2	5.2	51	36.9	6.3	
SAMBURU	43	35.6	4.2	40	26.5	4.9	41	36.9	5.7	39	98.5	10.1	41	35.9	4.2	33	26.9	5.3	31	37.3	5.8	
KADJADJI MAASAI	150	37.9	5.9	134	26.8	6.0	134	37.6	5.9	150	100.8	13.4	148	37.6	5.4	133	26.6	6.1	132	37.2	6.2	
KUNY	23	37.1	4.8	23	23.9	4.5	23	35.7	6.3	23	96.8	10.1	23	36.7	4.0	22	23.7	5.0	22	35.2	6.9	
NANDI	50	36.8	4.5	46	25.8	5.2	46	36.8	4.9	50	97.9	11.7	50	36.2	4.9	45	25.8	4.1	45	36.5	6.1	
KIPSTIGIS	43	37.6	5.0	42	25.9	5.6	42	36.1	6.2	43	98.3	13.3	43	37.2	5.5	39	26.1	4.4	39	35.6	6.8	
TUGEN	92	37.1	5.7	92	25.9	4.5	91	35.4	4.6	86	98.0	10.2	97	37.8	5.1	90	26.8	4.7	88	36.8	5.1	
KEYO	50	38.7	5.4	46	26.4	5.9	46	36.2	5.2	50	100.4	11.1	49	39.5	5.4	42	26.8	5.7	42	36.2	5.9	
MARAKWET	55	37.5	4.6	54	26.3	5.7	53	36.7	5.4	55	99.7	13.1	55	37.4	4.6	51	26.8	5.6	51	37.1	5.9	
POKOT	52	39.1	5.4	50	26.9	5.6	50	37.4	6.1	52	102.9	11.1	51	39.9	5.8	47	27.1	5.6	47	37.9	5.7	
ITESO	47	35.1	6.4	45	26.2	6.3	45	36.7	4.7	47	94.0	11.7	47	37.5	5.4	45	26.2	5.4	45	37.0	5.0	
TURKANA	40	36.8	4.5	33	26.0	5.3	31	36.5	6.0	37	96.9	12.6	37	37.1	5.3	35	26.5	4.4	34	36.8	7.2	
LUO	107	36.4	5.1	99	26.6	5.3	98	36.9	6.0	106	99.3	11.7	106	36.4	4.9	96	27.3	5.3	96	36.4	6.1	
GUSII	50	37.0	4.9	44	27.8	4.4	44	37.5	4.5	49	101.0	9.8	51	37.6	4.9	44	27.5	5.1	44	37.2	4.8	
TIRIKI	25	38.2	4.9	25	26.4	5.0	25	36.7	4.2	25	101.2	8.7	24	39.1	4.8	24	28.1	5.3	24	36.6	4.6	
MARAGOLI	24	37.0	5.4	21	27.8	4.9	21	39.2	6.8	24	101.7	13.8	24	37.6	5.1	22	27.3	6.0	21	37.6	6.9	
BUNYORE	20	38.3	4.8	19	29.1	6.5	19	35.5	6.4	20	102.2	13.9	20	38.6	4.2	18	28.5	5.8	17	36.5	7.7	
LOKHO	15	35.1	5.0	13	24.5	4.5	13	36.5	6.8	15	94.7	13.5	15	35.4	4.3	12	26.5	4.4	12	36.2	5.6	
MARWA	25	36.5	4.7	23	28.3	4.8	23	36.2	6.4	25	99.4	11.3	25	37.4	4.1	20	31.1	4.9	19	38.0	5.4	
WANGA	24	38.3	4.5	21	27.6	7.3	21	36.5	5.4	23	101.5	13.4	23	39.3	3.4	20	28.5	5.2	20	38.3	6.9	
MARACH	24	37.3	5.1	19	26.8	4.8	19	37.4	6.7	23	99.9	10.7	24	38.2	5.2	21	27.4	4.7	21	36.0	4.3	
BURKAYO	26	37.3	4.9	24	27.1	4.9	23	36.9	3.5	25	100.0	9.8	26	38.0	5.2	22	27.0	5.4	22	36.2	5.6	
SAITA	26	38.8	4.6	24	28.1	5.3	24	38.0	7.0	26	102.4	11.2	26	38.7	4.8	19	27.7	3.9	19	39.2	7.1	
RUTSISO	27	37.7	6.5	22	27.3	5.0	22	33.8	6.1	26	99.5	13.4	27	39.5	5.6	23	27.4	4.7	23	35.3	7.4	
BUNYALA	24	36.8	5.4	22	26.5	6.0	22	35.7	5.1	24	99.0	10.3	25	37.6	4.8	21	27.7	4.7	22	35.3	5.5	
KABRAS	26	36.8	5.1	25	27.1	3.0	25	36.5	3.4	26	99.5	8.5	26	37.5	4.7	24	27.9	4.0	24	36.0	6.0	
BUKUSU	24	32.0	5.4	20	24.6	4.1	18	31.7	4.9	20	86.1	12.1	20	33.8	5.3	22	24.8	3.9	22	34.1	5.9	
KIAMBU KIKUYU	37	37.7	5.7	36	28.9	4.4	35	35.6	4.4	35	98.2	11.3	37	38.6	6.2	31	25.9	5.2	32	37.4	6.1	
MURANGA KIKUYU	46	38.6	6.2	45	28.2	5.0	45	37.3	6.1	46	103.5	13.3	45	38.6	6.4	42	28.2	5.1	42	38.1	5.6	
NYERI KIKUYU	51	36.1	4.6	45	24.9	4.7	45	37.0	4.4	51	96.2	12.3	51	36.6	5.4	43	25.5	5.4	43	36.8	5.8	
NDIA	57	37.4	5.5	57	26.6	5.3	57	36.0	4.8	54	94.3	10.6	60	38.5	4.6	53	26.7	4.6	55	36.5	4.6	
KAMBA	35	36.7	6.0	30	26.0	5.1	31	35.5	4.4	34	96.8	12.5	36	38.0	6.7	34	25.5	4.0	32	36.6	6.1	
EMBU	67	35.7	4.9	59	26.1	5.2	58	34.4	3.9	62	94.7	10.6	70	37.0	4.9	61	27.0	4.7	59	34.3	4.2	
MREBE	66	36.3	6.0	59	25.6	4.5	60	34.0	5.9	63	94.4	13.3	62	36.0	6.2	59	26.3	4.6	58	35.8	5.1	
CHUKA	56	36.2	5.9	50	25.7	4.9	48	35.1	4.7	53	95.2	13.5	58	37.1	6.1	51	26.0	4.0	50	34.5	7.1	
MUTHAMBI	60	36.9	4.9	75	27.0	4.7	75	37.4	4.6	78	100.5	10.2	81	37.1	6.1	73	27.2	4.8	72	37.0	5.6	
MUMBI	38	38.4	5.5	37	26.5	5.1	37	37.9	5.3	38	102.3	11.8	39	38.8	6.5	36	27.4	4.8	36	38.2	5.6	
IGODJI	68	35.3	6.2	64	26.1	4.2	65	34.2	6.7	81	96.0	12.7	85	36.3	5.7	86	26.5	4.8	85	34.8	6.5	
IMENJI	37	34.3	5.0	35	23.7	5.3	34	34.9	5.1	36	92.4	11.7	39	34.9	6.0	32	25.7	5.2	32	34.8	6.0	
TIGANIA	36	35.7	5.0	34	26.9	4.5	34	36.2	5.3	35	98.7	9.8	36	36.0	4.7	35	27.0	4.5	34	37.1	4.6	
IGEMBE	32	34.7	5.6	29	26.5	4.2	29	36.3	3.6	32	100.7	9.8	33	38.9	4.6	31	27.6	4.5	31	36.7	4.9	
THARAKA	46	38.4	7.2	46	29.5	4.7	45	35.9	5.7	45	104.0	11.6	46	38.2	5.9	45	29.7	4.7	45	37.0	5.4	
POKONGO	47	35.7	5.1	46	25.9	4.3	45	36.6	5.6	44	97.5	11.5	46	36.8	5.4	42	26.1	5.0	41	37.0	5.6	
GIRIANA	36	35.1	4.6	33	27.1	3.8	33	35.1	5.9	35	94.6	10.1	36	35.5	4.7	34	27.2	3.7	32	35.1	6.2	
CHUMBI	13	36.5	5.2	11	27.4	4.6	11	34.5	5.4	12	97.0	11.8	14	37.3	4.8	13	28.2	3.9	13	34.2	6.6	
MID MJI KENDA	27	36.1	5.1	23	27.0	5.4	22	36.3	3.7	26	97.0	12.0	27	36.9	4.9	22	26.2	6.0	22	36.0	7.1	
DIGO	42	34.0	4.5	46	26.6	5.2	46	34.8	5.4	49	99.3	11.0	46	37.7	5.0	41	26.5	5.2	41	36.2	5.6	
TAITA	45	36.3	4.8	43	26.8	4.5	43	34.7	5.0	44	96.5	8.8	43	37.3	5.2	44	27.5	4.9	43	35.3	6.7	
TAIVETA	45	37.9	4.6	43	26.4	5.4	42	35.7	4.9	44	99.0	9.8	47	37.8	4.5	41	27.5	4.4	41	36.4	5.3	
																				47	100.2	12.4

Table AP. 1.4.40 : Frequencies of palmar patterns and triradii in Kenyan minimal ethnic population samples (Right hand males).

POPULATION	NO	PALMAR PATTERNS AND TRIRADII													
		PT %	RT %	P2 %	P3 %	P3T %	P4 %	PM %	CH %	TEF %	T %	T1 %	T2 %	T3 %	
SOMALI	224	1.8	3.2	10.4	41.9	8.1	50.5	6.8	27.5	5.0	52.6	44.8	1.4	25.7	
RENDILLE	153	3.3	3.9	11.8	46.1	7.2	62.5	3.9	22.2	7.2	50.3	51.0	1.3	23.5	
GABBARA	27	7.4	3.7	3.7	42.3	11.5	65.4	3.7	33.3	11.1	68.0	36.0	0.0	33.3	
BORAN	128	4.7	7.9	6.3	40.2	5.5	63.8	3.9	26.8	12.6	55.1	47.2	1.6	27.6	
BURJI	64	3.1	4.7	14.1	45.3	10.9	60.9	3.1	23.4	7.8	62.5	37.5	3.1	23.4	
SAMBURU	87	3.4	3.4	8.0	49.4	5.7	54.0	5.7	21.8	6.9	58.6	47.1	1.1	20.7	
KADJIAO MAASAI	63	3.2	3.2	9.5	60.3	9.5	49.2	9.5	25.4	6.3	50.8	57.1	3.2	23.8	
NAROK MAASAI	37	2.8	0.0	5.6	47.2	11.1	58.3	8.3	25.0	2.8	52.0	61.1	0.0	22.2	
NGWESI	41	19.5	24.4	7.3	34.1	12.2	58.3	0.0	24.4	43.9	48.8	51.2	0.0	24.4	
MUKOGDOO	38	7.9	5.3	10.5	55.3	7.9	44.7	2.6	23.7	13.2	53.2	39.5	0.0	23.7	
KONY	37	16.2	10.8	5.4	45.9	10.8	54.1	2.7	27.0	27.0	47.2	55.6	0.0	27.0	
NANDI	52	3.8	5.8	13.5	40.4	1.9	69.2	7.7	28.8	9.6	53.8	50.0	1.9	30.8	
KIPSIGIS	57	8.8	12.3	10.5	57.9	3.5	58.1	3.5	15.8	21.1	25.0	78.6	1.8	14.0	
TUGEN	108	7.5	8.4	0.9	38.9	6.5	62.6	5.6	19.4	15.9	52.9	40.0	1.9	20.4	
KEYO	50	2.0	6.0	6.0	34.0	8.0	70.0	6.0	22.0	9.0	58.0	50.0	0.0	20.0	
MARAKWET	50	5.0	5.0	8.0	52.0	14.0	59.0	2.0	20.0	12.0	44.9	55.1	2.0	20.0	
POKOT	45	14.0	11.6	6.7	44.4	0.0	55.6	6.7	17.8	25.6	64.3	45.2	0.0	15.6	
ITESO	52	7.7	3.8	5.8	48.1	11.5	69.2	9.6	26.9	11.5	30.8	73.1	5.8	26.9	
TURKANA	66	5.3	4.7	10.9	46.2	6.2	73.8	3.1	32.3	10.9	42.6	60.7	0.0	32.3	
LUGU	170	5.3	6.5	15.3	45.3	9.4	72.9	5.9	30.6	11.8	49.4	54.7	2.9	28.8	
GUSII	50	2.0	2.0	12.0	44.0	0.0	72.0	6.1	16.3	4.0	40.8	60.0	4.0	18.4	
TIRIKI	26	7.7	3.8	15.4	50.0	3.8	69.2	0.0	19.2	11.5	53.8	50.0	0.0	15.4	
MARAGOLI	26	7.7	11.5	19.2	53.8	11.5	53.8	3.8	34.6	19.2	53.8	50.0	0.0	34.6	
BUNYORE	30	0.0	3.3	13.3	60.0	10.0	66.7	0.0	6.7	3.3	36.7	63.3	0.0	6.7	
LOAKHO	39	2.6	2.6	15.4	56.4	10.3	66.7	12.6	28.2	5.1	35.9	74.4	2.6	28.2	
MARANA	25	8.0	0.0	15.0	56.0	4.0	68.0	8.0	8.0	8.0	48.0	60.0	0.0	8.0	
WANGA	25	4.0	5.0	16.0	36.0	0.0	84.0	0.0	20.0	12.0	60.0	48.0	0.0	12.0	
MARACH	25	4.0	4.0	20.0	52.0	8.0	60.0	4.0	36.0	8.0	64.0	40.0	0.0	36.0	
BUKHAYO	23	0.0	4.3	4.3	39.1	13.0	60.9	17.4	34.8	4.3	43.5	69.6	4.3	34.8	
SANIA	24	0.0	0.0	12.5	29.2	8.3	62.5	0.0	29.2	0.0	37.5	62.5	0.0	29.2	
BUTSOTSO	20	0.0	5.0	25.0	55.0	15.0	60.0	20.0	20.0	5.0	65.0	50.0	5.0	20.0	
BUNYALA	25	4.0	4.0	16.0	48.0	4.0	68.0	12.0	24.0	8.0	64.0	52.0	0.0	20.0	
KABRAS	26	3.8	0.0	11.5	45.2	0.0	61.5	11.5	15.4	3.8	46.2	61.5	3.8	15.4	
BUKJSU	61	8.2	9.8	14.8	43.3	8.3	70.0	1.6	23.0	18.0	38.3	60.0	3.3	23.0	
KIAMBU KIKUYU	65	3.1	6.3	7.8	35.9	9.4	73.4	6.3	25.0	9.4	45.3	57.8	4.7	25.0	
MURANGA KIKUYU	56	12.5	14.3	16.1	42.9	3.6	73.2	3.6	23.2	26.8	55.4	48.2	0.0	23.2	
NYERI KIKUYU	49	2.0	6.1	12.2	51.2	8.2	44.9	6.1	16.3	8.2	46.9	59.2	2.0	14.3	
NDIA	56	3.6	3.6	16.1	39.3	5.4	78.6	1.8	21.4	7.1	57.1	44.6	0.0	21.4	
KAMBA	78	3.8	6.4	11.5	39.7	5.1	78.2	6.4	30.8	10.3	61.0	45.5	2.6	28.2	
EMBU	87	4.6	5.7	9.2	40.2	5.7	71.3	4.6	14.9	10.3	64.4	39.1	1.1	14.9	
MBERE	64	10.9	9.4	12.5	48.4	1.6	78.1	4.7	18.8	20.3	45.3	56.3	4.7	17.2	
CHUKA	75	2.7	5.3	2.7	40.0	9.3	62.7	8.0	5.3	8.0	54.8	52.1	1.3	5.3	
MUTHAMBI	76	9.2	9.2	11.8	51.3	3.9	63.2	7.9	17.1	18.4	58.6	48.6	1.3	17.1	
MWIMBI	62	3.2	3.2	8.1	44.3	4.8	62.3	4.8	19.4	6.5	56.9	45.5	0.0	21.0	
IGDJI	78	3.8	6.4	7.7	46.8	5.1	72.7	10.3	23.1	10.3	58.4	36.8	6.4	23.1	
INENTI	61	5.6	4.9	14.8	45.9	16.4	45.9	6.6	19.7	11.5	45.7	56.7	0.0	23.0	
TIGANIA	64	6.3	7.8	7.8	37.5	6.3	68.8	4.7	23.4	14.1	57.8	46.9	1.6	21.9	
IGEMBE	56	10.6	15.2	13.6	30.3	6.1	59.7	1.5	12.1	25.8	54.5	47.0	0.0	12.1	
THARAKA	54	7.4	9.3	13.0	42.6	7.4	72.2	5.6	29.6	16.7	38.9	66.7	1.9	27.8	
POKIMO	114	4.4	4.4	7.9	48.2	3.5	72.8	5.3	24.6	8.8	42.1	58.8	3.5	25.3	
MALAKOTE	41	5.0	5.0	12.5	55.0	7.5	72.5	7.5	32.5	10.0	43.6	44.1	2.5	30.0	
GIRIANA	64	7.8	7.8	12.5	45.3	4.7	76.6	3.1	17.2	15.6	53.1	46.9	4.7	17.2	
CHONYI	79	11.4	10.1	21.5	48.7	3.8	85.9	7.6	15.2	22.8	32.9	69.6	5.1	15.2	
MUJI KENDU	32	12.5	15.6	21.9	43.8	6.3	75.0	6.3	21.9	28.1	34.4	71.9	0.0	21.9	
DIGO	116	5.2	9.5	14.7	52.6	5.2	68.1	0.9	30.2	13.9	40.5	60.3	3.4	27.6	
TAITA	55	7.7	7.7	17.0	61.5	3.8	61.5	17.3	40.4	15.4	48.1	67.3	5.8	40.4	
TAVETA	59	5.1	5.1	16.9	49.2	0.0	74.6	3.4	28.8	10.2	33.9	67.9	1.7	29.8	

TABLE 1.4.41 : FREQUENCIES OF PALMAR PATTERNS AND TRIRADII IN KENYAN MINIMAL ETHNIC POPULATION SAMPLES (LEFT HAND MALES).

POPULATION	SAMPLE													
	NO	I	IR	P2	P3	P3T	P4	PH	CH	TEF	T	T1	T2	TB
		%	%	%	%	%	%	%	%	%	%	%	%	%
SOMALI	224	10.8	12.1	5.4	22.3	8.9	83.9	4.5	21.9	22.9	20.3	42.4	0.9	21.9
RENDILLE	153	11.1	10.5	6.6	20.0	7.9	85.4	4.0	22.4	15.2	60.7	43.8	0.0	25.9
GABBRA	27	10.2	12.6	3.7	11.1	14.8	81.5	14.0	22.2	29.6	65.4	38.5	3.1	25.2
BORAN	128	7.8	7.8	2.4	20.5	7.1	89.0	5.5	24.4	22.0	61.4	40.9	3.1	12.5
BURJI	64	7.3	8.0	10.9	28.1	6.3	90.6	1.6	12.5	15.6	62.5	35.9	1.3	21.2
SAMBURU	87	8.0	5.7	4.6	16.1	8.1	90.8	5.8	17.2	13.8	54.3	49.7	4.6	10.4
KADJIABO MAASAI	63	11.1	15.9	1.6	20.6	20.6	79.4	6.4	14.3	27.0	58.1	43.0	1.6	14.3
HAROK MAASAI	37	11.1	8.3	0.0	16.7	19.4	80.6	5.6	11.1	19.4	57.1	47.6	0.0	8.3
MOUESI	41	25.0	30.0	0.0	29.3	4.9	90.2	5.0	20.0	55.0	58.3	50.0	0.0	20.0
MUKOGODO	30	13.5	13.5	13.2	26.3	13.2	81.6	7.9	21.1	26.3	40.0	65.0	0.0	21.6
KONY	37	26.3	26.3	0.0	18.9	8.1	94.6	0.0	16.2	54.0	54.1	54.1	2.6	15.8
HANDI	52	23.1	25.0	3.8	23.1	11.5	86.5	3.8	17.3	40.1	56.8	40.5	1.9	17.3
KIPSIGIS	57	26.3	26.3	5.3	29.8	7.0	86.0	5.3	8.8	52.6	61.5	40.4	5.3	10.5
TUGEN	108	21.5	25.0	1.9	13.9	8.3	87.0	3.7	13.9	42.1	33.3	66.7	1.9	13.9
KEYO	50	0.0	26.3	4.0	22.0	4.0	92.0	4.0	16.0	18.0	64.5	37.4	0.0	14.0
HARAKVET	50	20.0	20.0	6.0	24.0	6.0	90.0	4.0	12.0	36.0	56.0	50.0	0.0	12.0
POKOT	45	20.5	10.0	2.2	20.9	6.7	84.4	0.0	13.3	38.6	46.9	55.1	0.0	13.3
ITESO	52	23.1	16.0	7.7	32.7	9.6	94.2	9.6	23.1	40.1	53.5	42.9	5.8	23.1
TURKANA	66	22.7	18.2	7.6	24.2	10.6	100.0	4.5	19.7	39.4	34.6	69.2	1.5	18.2
LUO	170	24.6	25.0	10.1	27.0	11.8	94.7	8.3	16.0	56.0	45.8	59.3	0.6	15.4
SUSII	50	18.0	16.7	8.0	22.0	4.0	102.0	6.0	0.0	36.0	51.5	56.0	6.0	8.0
TIRIKI	26	19.2	30.2	7.7	15.4	15.4	92.3	11.5	7.7	38.5	44.0	56.0	7.7	7.7
MARAGOLI	26	36.0	18.0	7.7	11.5	7.7	80.8	3.8	15.4	61.5	57.7	46.2	0.0	16.0
BUNYORE	30	6.5	19.2	10.0	23.3	16.7	93.3	3.3	6.7	26.7	56.0	40.0	0.0	6.5
IDAKHO	39	34.2	29.0	5.1	25.6	12.8	87.2	15.4	12.8	66.7	35.5	67.7	2.6	13.2
HARAMA	25	24.0	19.4	12.0	20.0	24.0	92.0	4.0	4.0	60.0	52.6	60.5	0.0	4.0
WANGA	25	20.0	34.2	16.0	24.0	8.0	80.0	0.0	24.0	40.0	60.0	44.0	0.0	20.0
HARACH	25	20.0	36.0	12.0	20.0	20.0	92.0	0.0	20.0	44.0	56.0	40.0	4.0	20.0
BUKHAYO	23	0.0	20.0	8.7	0.7	0.7	104.3	17.4	13.0	4.3	56.0	40.0	4.3	13.0
SANIA	24	20.0	24.0	8.3	20.8	8.3	87.5	0.0	20.8	62.5	43.5	69.6	0.0	20.0
BUTSOTSO	20	5.0	4.3	15.0	10.0	20.0	100.0	10.0	40.0	25.0	40.0	52.0	5.0	35.0
BUNYALA	25	32.0	32.0	12.0	16.0	20.0	104.0	0.0	12.0	76.0	65.0	45.0	0.0	8.0
KABRAS	26	7.7	20.0	7.7	42.3	7.7	73.1	7.7	15.4	15.4	72.0	40.0	3.0	15.4
BUKUSU	61	18.0	44.0	1.6	19.7	4.9	101.6	4.9	14.7	39.3	53.8	50.0	3.0	14.0
KIAMBU KIKUYU	65	10.9	7.7	4.6	23.1	6.2	95.4	7.7	18.5	23.1	45.0	56.7	3.1	18.8
MURANGA KIKUYU	56	30.4	21.3	10.7	32.1	3.6	95.7	3.6	19.6	57.1	40.4	56.3	0.0	19.6
MYERI KIKUYU	49	16.3	12.5	4.1	32.7	10.2	73.5	2.0	12.2	30.8	46.4	57.1	2.0	12.2
NDIA	56	15.0	26.8	5.4	23.2	7.1	91.1	3.6	14.3	35.7	51.0	40.9	0.0	14.0
KANDA	78	16.9	22.4	7.7	29.5	10.3	83.3	9.0	25.6	39.7	63.2	40.4	2.6	23.4
EMBU	87	13.6	21.1	0.1	24.1	9.2	87.4	6.9	17.2	27.6	69.7	39.5	2.3	17.0
MBERE	64	25.8	22.1	6.3	35.9	4.7	89.1	3.1	15.6	53.1	64.4	40.2	9.1	15.2
CHUKA	75	14.7	17.1	1.3	9.3	13.3	93.3	2.7	8.0	34.7	44.6	47.7	2.7	8.0
MUTHAMBE	76	10.4	25.0	6.6	26.3	7.9	77.3	10.5	13.2	30.2	52.1	47.9	5.3	13.2
MWIMBI	62	21.3	20.0	1.6	27.4	9.7	82.3	6.4	22.6	45.9	50.0	55.6	0.0	19.4
IBOJI	78	15.4	19.7	7.7	34.6	5.1	76.9	16.7	12.8	33.3	64.3	56.4	3.8	12.8
IMENII	61	14.8	24.6	13.1	24.6	16.4	85.3	3.3	4.9	31.2	62.5	50.0	0.0	4.9
TIGANIA	64	15.6	17.9	7.8	25.0	1.6	95.3	4.7	14.1	20.1	45.8	57.6	0.0	12.5
IGEMBE	66	19.7	16.4	10.6	16.7	4.5	89.4	6.1	9.1	47.0	54.7	51.6	0.0	9.1
IMARAKA	54	18.9	12.5	3.7	16.7	5.6	90.7	1.9	18.5	48.2	57.0	40.4	0.0	18.9
POKOMO	114	17.5	27.3	3.5	22.8	9.7	86.8	7.0	25.4	34.2	41.5	60.4	2.6	15.4
MALAKOTE	41	14.7	24.5	12.2	39.0	7.3	85.4	2.4	14.6	29.3	50.0	54.4	0.0	14.7
GIRIANA	64	21.9	17.5	7.8	32.8	3.1	90.6	3.1	17.2	40.4	36.4	69.7	4.7	17.2
CHONYI	79	24.1	14.7	11.4	35.4	3.8	94.9	6.3	15.2	50.6	57.0	40.6	2.5	15.2
MID NJI KENDA	32	25.0	26.6	15.6	28.1	9.4	96.9	6.3	28.1	50.0	41.0	63.3	0.0	29.1
DIGO	116	17.9	26.6	9.6	21.5	6.9	94.0	3.4	25.9	41.4	40.6	65.6	1.7	24.0
TAITA	55	26.4	25.0	9.1	25.5	10.9	80.0	12.7	30.9	45.5	47.8	55.7	3.8	32.1
TAVETA	59	22.0	23.1	6.8	27.1	5.1	89.8	3.4	16.9	42.4	49.1	60.4	0.0	16.9

Table AP. 1.4.42 : Frequencies of palmar patterns and triradii in Kenyan minimal ethnic population samples (Right hand females).

POPULATION	NO	PALMAR PATTERNS AND TRIRADII													
		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
		%	%	%	%	%	%	%	%	%	%	%	%	%	%
SOMALI	103	1.9	2.9	5.8	35.9	6.7	85.0	6.7	27.2	4.9	50.5	59.2	0.0	27.2	
RENDILE	46	0.0	0.0	2.2	45.5	2.3	56.2	15.6	25.0	0.0	55.6	53.2	6.7	20.0	
GABBARA	62	0.0	3.2	3.2	33.3	3.2	76.2	3.2	22.2	3.2	39.2	52.3	0.0	23.4	
BORAN	60	5.8	6.8	5.1	32.2	3.4	78.0	1.7	18.6	13.6	64.4	37.3	0.0	20.0	
BURJI	57	7.0	5.3	5.3	36.8	5.3	73.7	5.3	33.3	12.1	57.9	45.6	0.0	25.1	
SAMBURU	46	0.0	2.2	6.7	40.0	6.7	71.1	8.9	22.2	2.2	60.0	62.2	6.7	24.4	
KADJIADO MAASAI	150	6.0	7.3	5.3	33.3	5.3	75.3	4.7	26.0	13.3	45.0	64.0	1.2	23.3	
KONY	23	17.4	13.0	0.0	43.6	0.0	65.2	4.2	30.4	30.4	36.4	63.6	4.2	30.4	
NANDI	51	14.0	16.0	4.0	38.0	5.0	68.0	6.0	24.0	30.0	27.1	79.2	0.0	24.0	
KIPISIS	43	4.7	9.3	7.0	32.6	4.7	76.7	4.7	18.6	14.0	33.2	64.0	2.2	18.6	
TUSEN	102	5.9	6.8	4.9	38.2	9.8	53.7	6.9	21.6	14.7	51.0	54.9	2.9	19.1	
KEYO	51	12.0	16.0	6.0	28.0	8.0	76.0	6.0	32.0	25.0	44.0	40.0	4.0	30.0	
MARAKWET	56	12.5	12.5	3.6	36.3	3.6	69.6	5.4	23.2	25.0	41.1	62.5	1.8	23.2	
POKOT	54	3.7	5.6	0.0	29.6	13.0	83.0	7.4	25.9	9.2	49.0	60.5	3.7	20.4	
ITESO	47	4.3	2.1	2.1	40.4	2.1	76.6	10.6	23.4	6.4	46.5	61.7	0.0	25.4	
TURKANA	43	2.4	4.6	4.6	23.8	4.6	90.5	7.1	24.6	7.1	47.6	56.5	0.0	24.6	
LUD	107	11.2	11.2	11.2	40.2	6.5	79.4	2.8	30.8	22.4	34.6	66.4	1.9	20.4	
GUSII	51	3.9	3.9	15.7	37.3	5.9	82.4	2.0	19.6	7.2	35.3	64.7	0.0	21.6	
TIRIKI	25	8.0	16.0	4.0	40.0	8.0	80.0	20.0	16.0	24.0	32.0	60.0	5.0	20.0	
MARAGOLI	24	4.2	4.2	0.0	37.5	4.2	87.5	0.0	20.8	6.3	33.3	62.5	4.2	20.8	
BUNYORE	20	15.0	15.0	0.0	25.0	0.0	80.0	0.0	25.0	30.0	30.0	70.0	0.0	25.0	
IDAKHO	15	20.0	26.7	6.7	46.7	6.7	73.3	13.3	33.3	46.7	45.7	73.3	0.0	26.7	
WARANA	25	0.0	0.0	12.0	40.0	8.0	76.0	12.0	28.0	0.0	32.0	72.0	4.0	32.0	
WAGA	24	0.0	4.2	12.5	33.3	4.2	75.0	4.2	12.5	4.2	41.7	58.3	0.0	16.7	
MARACH	24	4.2	0.0	0.0	29.2	0.0	79.2	12.5	16.7	4.2	50.0	54.2	4.2	26.5	
BURHAYO	26	7.7	15.4	7.7	42.3	15.4	85.4	0.0	23.1	23.1	35.5	61.5	0.0	23.1	
SAMIA	26	11.5	11.5	7.7	34.6	11.5	65.4	7.7	19.2	23.1	34.6	59.2	7.7	15.4	
BUTSOTSD	27	7.4	7.4	3.7	37.0	3.7	74.1	3.7	18.5	14.6	29.6	77.5	0.0	14.6	
BUNYALA	25	8.0	8.0	8.0	36.0	0.0	80.0	4.0	20.0	16.0	40.0	60.0	0.0	24.0	
KABRAS	26	3.8	0.0	11.5	53.8	0.0	76.9	7.7	7.7	3.8	42.3	45.4	3.8	7.7	
BUKUSU	29	3.8	5.9	3.8	24.1	0.0	85.2	5.9	37.9	10.3	48.3	58.6	0.0	37.9	
KIAMBU KIKUYU	39	5.1	5.1	2.6	43.6	5.1	86.7	7.7	23.1	10.3	35.9	66.7	5.1	25.4	
MURANGA KIKUYU	46	0.0	0.0	2.2	34.8	6.5	59.6	4.2	23.9	0.0	42.5	58.7	2.2	23.9	
NYERI KIKUYU	51	3.9	5.9	9.8	45.1	2.0	55.9	2.0	15.7	9.8	29.2	65.5	2.0	17.6	
NDIA	66	10.6	16.7	4.5	39.4	1.5	69.7	4.5	15.2	27.3	59.1	40.9	4.5	15.2	
KAMBA	42	9.5	9.5	7.1	31.0	9.5	71.4	4.8	19.0	14.3	40.5	61.9	7.1	19.0	
ENBU	72	5.6	6.3	4.2	36.1	1.4	75.0	4.2	18.1	15.3	42.3	57.7	4.2	15.1	
MBERE	66	4.8	9.1	3.0	31.8	10.6	77.3	0.0	21.2	13.6	45.5	51.5	3.0	22.7	
CHUKA	61	5.2	13.1	3.3	28.2	3.3	77.0	6.6	27.9	21.3	60.0	48.3	0.0	26.2	
MUTHAMBI	23	4.8	3.6	0.4	36.1	9.5	72.3	4.5	15.7	4.4	53.7	50.0	1.2	15.7	
MWIMBI	43	5.0	5.0	5.0	27.5	5.0	92.5	2.5	27.5	10.0	63.9	36.1	2.5	20.0	
IGDJI	95	5.3	7.4	3.2	30.5	4.2	82.1	7.4	17.9	12.6	62.1	46.3	0.0	16.9	
IMENTI	39	0.0	0.0	12.8	43.6	5.1	64.1	2.6	30.6	0.0	41.0	61.5	0.0	30.6	
TIGANIA	35	2.8	5.6	5.6	47.2	2.8	66.7	11.1	16.7	6.3	55.6	55.6	2.6	13.9	
IGEMBE	33	12.1	12.1	6.1	27.3	3.0	84.8	15.2	9.1	24.2	63.6	45.5	3.0	9.1	
THARAKA	46	4.3	6.5	4.3	28.3	5.7	67.4	2.2	21.7	10.9	34.8	67.4	2.2	21.7	
ODKOMO	90	7.8	7.8	3.3	43.3	7.8	72.2	6.7	21.1	15.6	37.1	65.2	3.3	22.2	
GIRIAMA	34	10.5	13.2	5.3	36.8	0.0	89.5	2.6	31.6	23.7	45.5	59.5	2.6	31.6	
CHOMVI	14	14.3	14.3	14.3	42.9	0.0	85.7	7.1	14.3	28.6	57.1	42.9	7.1	14.3	
MID WJI KENYA	27	11.1	11.1	3.7	37.0	0.0	81.5	14.0	11.1	22.2	51.9	63.0	0.0	11.1	
DIGO	100	5.0	7.0	5.0	37.0	4.0	83.0	5.0	25.0	12.0	33.0	71.0	1.0	28.0	
TAIFA	45	4.4	4.4	11.1	42.2	11.1	82.2	4.4	44.4	8.9	39.9	71.1	6.7	42.2	
TAVETA	46	2.1	2.1	8.5	36.2	10.6	85.0	10.6	23.4	4.3	34.0	74.5	2.0	25.7	

Table AP. 1.4.43 : Frequencies of palmar patterns and triradii in
Kenyan minimal ethnic population samples
(Left hand females)

POPULATION	NO	PALMAR PATTERNS AND TRIRADII												
		PT %	RT %	P2 %	P3 %	P3T %	P4 %	PH %	CH %	TEF %	T %	T1 %	T2 %	T3 %
SOMALI	103	5.8	8.8	0.0	18.4	7.8	89.3	5.8	17.5	12.6	60.4	44.6	1.0	15.4
RENDILLE	46	2.2	2.2	0.0	28.3	6.5	87.0	19.6	23.9	4.3	52.2	60.9	5.5	23.9
GABBARA	63	4.8	6.3	0.0	20.6	5.3	82.5	3.2	23.8	11.1	50.8	52.4	0.0	23.8
BORAN	62	5.7	8.3	0.0	21.7	1.7	86.7	0.0	25.0	15.0	58.3	41.7	0.0	25.0
BURJI	57	3.8	5.8	0.0	24.6	5.3	86.0	8.8	24.6	17.5	52.6	56.1	0.0	26.3
SANSURU	46	6.5	10.9	0.0	17.4	4.3	93.5	5.5	17.4	17.4	55.5	45.7	4.3	19.6
KADJIADO MAASAI	150	11.3	15.3	0.0	21.3	8.0	92.0	11.3	16.7	26.7	48.7	61.3	1.3	16.7
KONY	23	21.7	21.7	0.0	34.8	0.0	95.7	0.0	26.1	43.5	43.5	56.5	0.0	24.1
NANDI	50	22.0	24.0	0.0	16.0	8.0	92.0	2.0	20.0	46.0	22.9	79.2	0.0	20.0
KIPSIGIS	43	14.0	14.0	0.0	27.9	2.3	79.1	4.7	16.3	27.9	42.9	61.9	2.3	14.0
TUGEN	102	19.6	20.8	0.0	16.8	11.9	83.2	7.9	13.9	40.5	58.0	47.0	4.0	12.7
KEYO	50	26.0	24.0	0.0	14.0	8.0	98.0	2.0	20.0	50.0	42.0	62.0	0.0	18.0
MARAKWET	56	21.8	20.0	0.0	25.0	8.9	75.0	3.6	17.9	41.8	59.9	46.4	0.0	16.1
POKOT	54	11.3	13.0	0.0	16.9	7.5	83.0	3.7	16.7	24.1	50.0	54.0	1.9	14.8
ITESO	47	10.6	10.6	0.0	21.3	12.5	93.6	10.6	14.9	21.3	46.8	59.6	2.1	17.0
TURKANA	43	25.6	20.9	0.0	16.3	9.3	97.7	9.3	34.9	46.5	58.1	48.8	4.7	32.6
LUO	107	21.5	21.5	0.1	21.5	7.5	93.5	4.7	21.5	43.0	42.1	61.7	1.9	20.6
GUSII	51	11.8	19.6	0.0	19.6	11.8	90.2	2.0	23.5	31.4	41.2	60.9	2.0	21.6
TERIKI	25	28.0	32.0	0.0	24.0	0.0	112.0	8.0	12.0	60.0	36.0	88.0	4.0	12.0
MARAGOLI	24	8.3	8.3	0.0	8.3	8.3	112.5	12.5	16.7	16.7	41.7	66.7	4.2	15.7
BUNDYRE	20	25.0	25.0	0.0	30.0	0.0	80.0	5.0	30.0	50.0	30.0	80.0	0.0	25.0
IDAKHO	15	20.0	26.7	0.1	20.0	6.7	93.3	6.7	20.0	46.7	46.7	60.0	0.0	20.0
MARANA	25	8.0	8.0	0.0	12.0	4.0	100.0	16.0	20.0	16.0	44.0	68.0	4.0	20.0
WANGA	24	20.8	16.7	0.0	20.8	12.5	75.0	8.3	12.5	37.5	50.0	58.3	0.0	12.5
MARACH	24	16.7	8.3	0.0	4.2	12.5	100.0	8.3	8.3	25.0	50.0	58.3	0.0	8.3
BUKHAYO	26	19.2	30.8	0.0	15.4	23.1	84.6	7.7	15.4	50.0	46.2	61.5	0.0	15.4
SANIA	26	15.4	11.5	0.1	15.4	3.8	88.5	7.7	15.4	26.9	30.8	59.2	7.7	15.4
BUTSOTSO	27	7.4	18.5	0.0	22.2	18.5	77.8	7.4	11.1	25.9	22.2	85.2	0.0	11.1
BUNYALA	25	12.0	12.0	0.0	12.0	4.0	104.0	4.0	0.0	24.0	44.0	60.0	0.0	0.0
KABRAS	26	15.4	11.5	0.1	23.1	11.5	96.2	0.0	19.2	26.9	34.6	61.5	3.8	19.2
BUKUSU	29	3.4	3.4	0.0	13.8	0.0	113.8	6.9	27.6	6.9	51.7	55.2	0.0	27.6
KIAMBU KIKUYU	39	15.4	15.4	0.0	28.2	5.1	74.4	10.3	12.8	30.8	30.8	69.2	10.3	12.8
MURANGA KIKUYU	46	13.0	10.9	0.1	21.7	4.3	89.1	6.5	28.3	23.9	32.6	71.7	2.2	28.3
NYERI KIKUYU	51	13.7	19.6	0.0	13.7	7.8	86.3	2.0	9.8	33.3	29.4	70.6	0.0	11.9
NDIA	66	19.7	24.2	0.0	28.8	9.1	77.3	4.5	12.1	43.9	60.6	40.9	3.0	12.1
KAMBA	42	19.0	21.4	0.0	11.9	16.7	85.7	11.9	9.5	40.5	35.1	70.3	7.1	9.5
EMBU	72	16.7	16.7	0.0	11.1	5.6	98.6	4.2	13.9	33.3	44.4	55.9	4.2	13.9
MBERE	66	9.1	13.6	0.0	16.7	7.6	99.4	4.5	21.2	22.7	45.5	50.0	9.1	21.2
CHUKA	61	14.8	14.8	0.0	23.0	3.3	86.9	6.6	13.1	29.5	55.9	50.8	0.0	13.1
MUTHAMBI	93	15.7	14.5	0.0	21.7	2.4	94.0	4.8	18.1	27.7	53.2	49.4	2.4	19.1
MWIMBI	43	7.5	5.0	0.0	17.5	2.5	95.0	7.5	25.0	12.5	65.7	40.0	2.5	25.0
ISOJI	95	16.8	17.9	0.0	20.0	7.4	86.3	10.5	15.8	34.7	60.0	50.5	2.1	13.7
IMENTI	39	15.4	15.4	0.1	20.5	7.7	82.1	10.3	23.1	30.3	53.8	53.8	5.1	20.5
FIGANIA	35	22.2	25.0	0.0	16.7	8.3	108.3	5.6	13.9	47.2	58.3	47.2	2.8	11.1
IGEMBE	33	12.1	15.2	0.0	18.2	9.1	57.9	6.1	18.2	27.3	54.5	48.5	5.1	15.2
THARAKA	46	19.6	17.4	0.0	13.0	13.0	84.8	2.2	10.9	37.0	32.6	67.4	2.2	10.9
POKOTMO	90	20.0	20.0	0.0	31.1	4.4	85.6	4.4	18.9	40.0	45.6	55.7	2.2	18.9
GIRIANA	38	15.4	29.7	0.0	26.3	7.9	99.5	15.8	21.1	47.4	55.3	55.3	5.3	21.1
CHONYI	14	29.6	35.7	0.1	21.4	0.0	107.1	7.1	7.1	64.3	57.1	42.9	7.1	7.1
MID MUJI KENYA	27	29.6	29.6	0.0	18.5	3.7	36.3	3.7	11.1	59.3	55.6	48.1	0.0	11.1
OIGO	100	22.0	27.0	0.0	27.0	4.0	99.0	3.0	26.0	49.0	37.0	62.0	4.0	27.0
TAITA	45	15.6	15.6	0.0	33.3	2.2	100.0	6.7	40.0	31.1	31.1	73.3	4.4	37.8
TAVETA	48	10.4	8.3	0.0	18.8	4.2	97.5	0.0	22.9	18.8	27.1	72.9	0.0	20.8

Table AP. 1.4.44 : Frequency of interdigital triradii in Kenyan minimal ethnic population samples.

Males

Females

No	RIGHT HAND			LEFT HAND			NIGHT HAND			LAMP HAND					
	5	4	3	2	1	0	8	7	6	5	4	3	2	1	0
Pop															
221	5.4	71.9	16.3												
152	1.3	77.0	15.1	5.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	74.1	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127	0.8	45.0	10.3	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	75.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	5.7	75.9	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	1.6	68.3	25.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	2.4	72.2	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	2.8	73.2	24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	2.6	78.9	15.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	5.4	75.7	16.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	1.9	73.1	23.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	3.5	88.4	24.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108	1.9	68.0	9.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	3.0	76.5	17.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	2.0	68.0	26.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	2.2	73.1	20.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	69.2	28.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	1.5	87.7	23.1	6.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	1.8	80.0	20.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	4.0	88.0	24.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	3.8	81.5	26.8	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	60.4	40.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	63.3	23.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	5.1	56.4	22.1	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	60.0	36.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4.0	64.0	24.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	4.0	64.0	32.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	82.6	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	12.5	70.8	8.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	8.0	60.0	25.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	8.0	30.0	38.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.8	73.1	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	1.6	65.6	27.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	79.7	14.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kikuyu															
Nyiriki															
Ngũgĩ															
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PROGRAM DELTA
C PROGRAM DELTA CALCULATES HIERNAUX'S DELTA G DISTANCES BETWEEN .
C POPULATION SAMPLES. MAXIMUM PARAMETERS HERE ARE 50 SAMPLES, 200
C ATTRIBUTES. LANGUAGE IS FORTRAN 77.
C PROGRAM FORMULA AS GIVEN BY CONSTANDSE-WESTERHANN (1972) FROM
C HIERNAUX (1964, 1965).
C DIMENSION DIST(60,60), DATA(200,60), GAMMA(200), INO(60)
C DIST=ARRAY TO HOLD DISTANCES; DATA= INPUT DATA OF POPULATION SAMPLE
C MEANS AND FREQUENCIES; GAMMA= ARRAY CONTAINING ATTRIBUTE GAMMAS
C OF VARIATION.
C CHARACTER*80 TITLE, TIT1
C CHARACTER*20 PLAB(60)
C CHARACTER*72 FMT
C CHARACTER*50 GAMFT
C TITLE=ARRAY HOLDING FIRST LINE OF TITLE.
C TIT1=ARRAY HOLDING SECOND LINE OF TITLE.
C FMT IS VARIABLE CONTAINING FORMAT OF DATA.
C GAMFT IS VARIABLE CONTAINING FORMAT FOR GAMMAS.
C OPEN(UNIT=4, NAME='CON', STATUS='OLD')
C 'CON' IS DATA FILE CONTAINING PARAMETERS AND GAMMAS.
C PLAB IS AN ARRAY CONTAINING POPULATION SAMPLE LABELS.
C READ(4,994) TITLE, TIT1
994 FORMAT(A/A)
C WRITE(6,993) TITLE, TIT1
993 FORMAT(3X,A/3X,A/11)
C READ(4,814) FMT
814 FORMAT(A)
C READ(4,815) GAMFT
815 FORMAT(A)
C READ(4,884) IPOP, NVAR
884 FORMAT(2I3)
C IPOP=NO OF SAMPLES; NVAR=NO OF ATTRIBUTES.
C IPIP=IPOP-1
C READ(1,999) (PLAB(J), J=1, IPOP)
999 FORMAT(A)
C DO 77 K=1, IPOP
C READ(5,FMT) (INO(K), (DATA(J,K), J=1, NVAR))
77 CONTINUE
C READ(4,GAMFT) (GAMMA(J), J=1, NVAR)
C DO 771 J=1, IPOP
C DO 771 K=1, IPOP
C DIST(J,K)=0.0
771 CONTINUE
C DO 333 M=1, IPIP
C MOD=M+1
C DO 444 K=MOD, IPOP
C TOTAL=0.0
C DO 555 J=1, NVAR
C W=DATA(J,M)-DATA(J,K)
C U=W/GAMMA(J)
C W=U*W
C TOTAL=TOTAL+W
555 CONTINUE
C TOTAL=TOTAL*10000
C TOTAL=TOTAL/NVAR
C DIST(M,K)=TOTAL
444 CONTINUE
333 CONTINUE
C CALL WRITED6(PLAB, DIST, IPOP, INO)
C STOP
C END
C SUBROUTINE WRITED6(PLAB, DMAT, IPOP, NO)
C SUBROUTINE TO WRITE OUT THE DISTANCES IN A LOWER TRIANGULAR
C MATRIX, SECTIONED OFF INTO BLOCKS OF 15.
C DIMENSION NO(60), DMAT(60,60)
C CHARACTER*20 PLAB(60)
C WRITE(6,11) PLAB(1), NO(1)
11 FORMAT(2X,A,I2)
C IPIP=IPOP-1
C I=IPOP/15+1
C DO 56 M=1, I
C IEND=0
C IEND=M*15
C IBEG=IEND-14
C IF (IEND .GT. IPOP) IEND=IPOP
C DO 41 N=IBEG, IPIP
C IEN=M
C IF (M .GE. IEND) IEN=IEND
C WRITE(6,888) (PLAB(N+1), NO(N+1), (DMAT(K,N+1), K=IBEG, IEN))
888 FORMAT(2X,A,I2,15F6.0)
41 CONTINUE
C WRITE(6,887) (NO(J), J=IBEG, IEND)
887 FORMAT(/22X,15I6/)
56 CONTINUE
C WRITE(6,75)
75 FORMAT(////)
C RETURN
C END

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APPENDIX 3: MULTIVARIATE VARIATION IN KENYAN
 MINIMAL ETHNIC POPULATION SAMPLES .

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[illegible]

Table AP. 3.3 (continued)

	19	20	21	22	23	24	25	26	27	28	29	30	31	32
POKOT	567.													
ITESO	652.	696.												
TURKANA	710.	927.	929.											
LUD	364.	550.	383.	475.										
GUSII	479.	568.	585.	541.	298.									
TIRIKI	764.	811.	802.	681.	492.	470.								
MARAGOLI	663.	710.	692.	939.	593.	712.	850.							
BUMTORE	576.	917.	1013.	830.	480.	516.	780.	981.						
IDAKHO	770.	682.	660.	1264.	481.	651.	695.	845.	824.					
MARANA	813.	1311.	1568.	847.	725.	880.	1127.	1532.	730.	1491.				
WANGA	1005.	888.	611.	1248.	695.	680.	1015.	997.	1022.	999.	1720.			
MARACH	699.	911.	962.	710.	513.	740.	903.	857.	802.	1076.	740.	1207.		
BUKHAYO	1074.	926.	661.	1227.	876.	864.	1199.	911.	1478.	1052.	1939.	1139.	1360.	
SANIA	1003.	1112.	1098.	1074.	867.	796.	648.	1024.	1053.	1171.	1720.	1022.	1229.	1412.
BUTSOTSO	902.	1169.	1057.	1170.	657.	822.	1137.	1272.	855.	706.	1030.	1270.	1233.	1306.
BUNYALA	1192.	1377.	970.	910.	747.	918.	1048.	992.	1283.	1407.	1461.	1230.	1135.	1243.
KABRAS	878.	965.	1151.	889.	732.	609.	775.	1098.	726.	1053.	1041.	1304.	1232.	1420.
BUKUSU	569.	471.	514.	660.	459.	403.	563.	505.	755.	711.	1450.	732.	875.	837.
KIAMBU KIKUYU	339.	539.	707.	596.	332.	391.	637.	728.	582.	677.	812.	849.	647.	839.
MURANGA KIKUYU	739.	903.	750.	573.	396.	424.	760.	871.	867.	1092.	953.	714.	775.	1291.
MYERI KIKUYU	682.	611.	662.	650.	541.	675.	625.	571.	1005.	944.	1228.	994.	752.	1097.
NDIA	560.	595.	403.	681.	327.	343.	500.	460.	756.	626.	1317.	544.	811.	921.
KAMBA	466.	694.	499.	571.	245.	300.	402.	743.	719.	610.	1004.	729.	721.	927.
EMBU	711.	532.	479.	871.	430.	441.	509.	694.	832.	641.	1549.	652.	1105.	722.
MBERE	525.	690.	786.	498.	317.	355.	440.	775.	490.	713.	794.	989.	681.	1147.
CHUKA	652.	752.	733.	822.	626.	487.	705.	790.	739.	965.	1333.	923.	1156.	1041.
MUTHAMBE	531.	506.	500.	675.	352.	300.	524.	573.	751.	642.	1143.	753.	840.	915.
MUIMBI	660.	424.	456.	803.	517.	591.	689.	618.	1072.	689.	1640.	604.	1063.	683.
IGUJI	604.	609.	563.	619.	330.	396.	509.	503.	731.	559.	1202.	915.	871.	790.
INENTI	542.	896.	638.	625.	466.	495.	752.	658.	673.	976.	1161.	903.	914.	927.
TIGANIA	545.	449.	416.	564.	360.	340.	541.	469.	797.	763.	1200.	531.	846.	620.
IGEMBE	402.	695.	594.	649.	425.	345.	701.	592.	675.	821.	1199.	699.	986.	1012.
THARAKA	677.	746.	803.	424.	465.	413.	465.	502.	814.	947.	1033.	1051.	790.	1119.
POKOMO	417.	470.	470.	471.	269.	270.	451.	466.	630.	672.	1006.	716.	610.	769.
MALAKOTE	547.	695.	700.	692.	473.	502.	722.	1066.	671.	761.	1123.	936.	823.	1301.
GIRIAMA	1038.	1039.	886.	870.	602.	624.	600.	902.	761.	957.	1305.	943.	1229.	1353.
CHONYI	731.	810.	609.	610.	337.	429.	573.	771.	609.	749.	1056.	707.	927.	1074.
MID MJI KENDA	961.	1100.	1146.	663.	521.	734.	673.	1162.	742.	956.	1049.	1100.	863.	1541.
DIGO	501.	741.	890.	444.	294.	390.	460.	767.	476.	830.	501.	1009.	651.	1244.
TAITA	922.	654.	529.	1130.	502.	760.	815.	612.	1155.	520.	1703.	825.	1250.	579.
TAVETA	1041.	697.	695.	874.	719.	857.	663.	642.	1200.	1073.	1076.	933.	1079.	1003.
	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BUNYALA	34	1306.												
KABRAS	35	1122.	1207.											
BUKUSU	36	1197.	1165.	1015.										
KIAMBU KIKUYU	37	902.	1104.	743.	493.									
MURANGA KIKUYU	38	1170.	939.	904.	706.	550.								
MYERI KIKUYU	39	1410.	1034.	949.	507.	701.	642.							
NDIA	41	1069.	923.	948.	323.	464.	553.	434.						
KAMBA	42	911.	869.	721.	486.	335.	423.	574.	360.					
EMBU	43	1142.	1161.	709.	369.	550.	751.	559.	266.	377.				
MBERE	44	1006.	1076.	653.	549.	379.	501.	650.	474.	317.	592.			
CHUKA	45	1300.	1311.	800.	514.	637.	871.	619.	519.	493.	445.	642.		
MUTHAMBE	46	1025.	920.	501.	492.	493.	400.	513.	301.	275.	414.	475.	401.	
MUIMBI	47	1329.	1057.	1011.	396.	535.	814.	523.	303.	463.	325.	669.	564.	415.
IGUJI	48	1016.	941.	637.	543.	465.	667.	551.	394.	325.	430.	394.	529.	302.
INENTI	49	1207.	1170.	929.	539.	666.	754.	597.	529.	515.	502.	592.	516.	506.
TIGANIA	50	1047.	775.	700.	397.	405.	536.	405.	315.	424.	340.	514.	536.	354.
IGEMBE	51	1042.	1112.	853.	402.	510.	624.	602.	407.	437.	466.	400.	376.	335.
THARAKA	52	1122.	823.	644.	575.	499.	430.	407.	392.	423.	611.	446.	660.	441.
POKOMO	53	1035.	975.	651.	328.	631.	404.	401.	236.	245.	321.	360.	432.	203.
MALAKOTE	54	971.	1294.	942.	776.	634.	700.	1011.	769.	500.	749.	560.	944.	597.
GIRIAMA	56	1373.	1219.	673.	600.	851.	606.	706.	596.	525.	495.	566.	653.	506.
CHONYI	57	893.	951.	915.	506.	650.	679.	850.	423.	462.	509.	340.	769.	529.
MID MJI KENDA	58	1164.	1196.	1071.	709.	749.	824.	875.	733.	560.	935.	463.	950.	739.
DIGO	59	835.	900.	501.	609.	369.	420.	606.	540.	361.	639.	264.	631.	440.
TAITA	60	973.	1124.	1120.	652.	723.	1001.	840.	504.	626.	579.	759.	903.	600.
TAVETA	61	1640.	1142.	1312.	467.	890.	1051.	563.	463.	705.	499.	760.	909.	792.
	33	34	35	36	37	38	39	41	42	43	44	45	46	47
TIGANIA	50	534.												
IGEMBE	51	394.	365.											
THARAKA	52	607.	446.	612.										
POKOMO	53	411.	326.	403.	322.									
MALAKOTE	54	647.	695.	670.	756.	620.								
GIRIAMA	56	658.	503.	760.	657.	533.	997.							
CHONYI	57	551.	473.	556.	625.	453.	574.	551.						
MID MJI KENDA	58	775.	857.	832.	770.	600.	857.	637.	593.					
DIGO	59	645.	544.	576.	326.	372.	639.	510.	521.	542.				
TAITA	60	801.	541.	770.	903.	595.	891.	939.	531.	1005.	900.			
TAVETA	61	897.	502.	950.	640.	527.	1150.	830.	605.	1056.	970.	620.		
	40	50	51	52	53	54	56	57	58	59	60	61		
TIGANIA	50	534.												
IGEMBE	51	394.	365.											
THARAKA	52	607.	446.	612.										
POKOMO	53	411.	326.	403.	322.									
MALAKOTE	54	647.	695.	670.	756.	620.								
GIRIAMA	56	658.	503.	760.	657.	533.	997.							
CHONYI	57	551.	473.	556.	625.	453.	574.	551.						
MID MJI KENDA	58	775.	857.	832.	770.	600.	857.	637.	593.					
DIGO	59	645.	544.	576.	326.	372.	639.	510.	521.	542.				
TAITA	60	801.	541.	770.	903.	595.	891.	939.	531.	1005.	900.			
TAVETA	61	897.	502.	950.	640.	527.	1150.	830.	605.	1056.	970.	620.		

Table AP. 3.4 (continued)

LUO	22	292.												
GUSII	23	429.	306.											
TIRIKI	24	674.	585.	763.										
MARAGOLI	25	578.	585.	616.	868.									
BUNYORE	26	1063.	1149.	1007.	1347.	884.								
IDAKHO	27	850.	825.	892.	1103.	924.	1201.							
KARAMA	28	669.	546.	577.	802.	850.	1379.	1347.						
WANGA	29	934.	880.	687.	1164.	773.	828.	1146.	1025.					
KARACH	30	709.	690.	733.	759.	615.	1095.	1028.	914.	814.				
BUKHAYO	31	580.	496.	541.	865.	615.	852.	854.	935.	777.	773.			
SAMIA	32	693.	596.	728.	889.	1340.	1576.	1348.	806.	1502.	1007.	1024.		
BUTSOTSO	33	648.	737.	762.	1053.	735.	1097.	981.	1075.	745.	699.	615.	1205.	
BUNYALA	34	724.	728.	736.	1065.	912.	1110.	1375.	1179.	838.	1047.	892.	1344.	1041.
KABRAS	35	1116.	1192.	975.	1125.	1217.	1314.	1159.	1666.	864.	1110.	1107.	1788.	1053.
BUKUSU	36	857.	942.	1197.	1253.	950.	1134.	1124.	1557.	1191.	831.	997.	1731.	1066.
KIAMBU KIKUYU	37	545.	520.	689.	904.	1109.	1228.	1115.	869.	874.	777.	789.	744.	793.
MURANGA KIKUYU	38	729.	775.	622.	1155.	907.	976.	1155.	1135.	624.	951.	802.	1134.	977.
NYERI KIKUYU	39	739.	558.	535.	929.	762.	1091.	902.	1057.	606.	578.	577.	1011.	621.
NDIA	41	433.	368.	330.	602.	557.	681.	811.	662.	654.	419.	427.	700.	561.
KAMBA	42	468.	401.	499.	565.	620.	950.	995.	699.	902.	620.	604.	640.	733.
EMBU	43	557.	486.	434.	713.	534.	653.	765.	769.	651.	470.	535.	971.	623.
MBERE	44	587.	615.	559.	988.	570.	586.	729.	1095.	578.	642.	338.	1152.	543.
CHUKA	45	663.	592.	460.	702.	797.	863.	1103.	660.	835.	628.	817.	761.	838.
MUTHAMBE	46	545.	412.	311.	649.	493.	803.	923.	559.	600.	514.	485.	864.	685.
MWIMBI	47	446.	457.	449.	773.	535.	702.	1002.	700.	668.	492.	629.	866.	682.
IGOJI	48	414.	473.	441.	719.	712.	854.	966.	658.	614.	592.	642.	914.	598.
IMENTI	49	539.	539.	459.	1012.	712.	913.	703.	940.	685.	715.	536.	1050.	627.
TIGANIA	50	629.	653.	604.	768.	684.	972.	877.	999.	791.	701.	551.	1199.	828.
IGEMBE	51	742.	877.	803.	988.	1089.	1124.	1090.	1119.	799.	762.	830.	1191.	962.
THARAKA	52	777.	732.	526.	992.	883.	704.	1278.	930.	794.	851.	835.	943.	890.
POKOMO	53	440.	389.	438.	692.	615.	879.	840.	719.	513.	647.	613.	942.	560.
GIRIAMA	54	773.	716.	684.	974.	700.	910.	1015.	901.	596.	633.	840.	1337.	707.
CHONYI	57	1044.	893.	933.	1070.	1207.	1710.	1407.	1430.	1175.	1226.	1191.	1553.	1250.
MID MJI KENDA	58	821.	840.	715.	679.	990.	1179.	1201.	910.	935.	830.	914.	1016.	972.
DIGO	59	955.	760.	797.	1112.	1334.	1860.	1920.	954.	1700.	1436.	1604.	1094.	1651.
TAITA	60	570.	573.	506.	745.	616.	953.	776.	948.	928.	770.	571.	1202.	967.
TAVETA	61	518.	446.	427.	830.	911.	996.	928.	723.	759.	850.	743.	746.	807.
		21	22	23	24	25	26	27	28	29	30	31	32	33
KIAMBU KIKUYU	37	1035.												
MURANGA KIKUYU	38	984.	587.											
NYERI KIKUYU	39	805.	639.	677.										
NDIA	41	955.	530.	655.	408.									
KAMBA	42	1246.	768.	911.	628.	373.								
EMBU	43	810.	603.	620.	476.	245.	422.							
MBERE	44	557.	673.	477.	406.	430.	659.	320.						
CHUKA	45	1067.	675.	766.	633.	295.	432.	300.	633.					
MUTHAMBE	46	870.	651.	607.	403.	210.	455.	201.	392.	292.				
MWIMBI	47	790.	542.	607.	619.	371.	532.	206.	440.	409.	333.			
IGOJI	48	822.	379.	477.	532.	340.	454.	299.	435.	342.	385.	402.		
IMENTI	49	677.	590.	649.	407.	400.	645.	394.	309.	559.	443.	524.	388.	
TIGANIA	50	773.	773.	564.	582.	527.	700.	500.	449.	700.	510.	661.	490.	558.
IGEMBE	51	1081.	660.	508.	733.	684.	773.	670.	604.	818.	703.	632.	422.	814.
THARAKA	52	1407.	809.	618.	761.	461.	465.	300.	697.	420.	517.	534.	447.	749.
POKOMO	53	856.	428.	557.	488.	361.	570.	393.	461.	540.	404.	409.	246.	436.
GIRIAMA	56	929.	825.	899.	841.	596.	937.	544.	672.	704.	677.	564.	514.	620.
CHONYI	57	1283.	1048.	1168.	1020.	1035.	1216.	1046.	1129.	1259.	1101.	1033.	856.	1000.
MID MJI KENDA	58	1449.	993.	958.	847.	611.	656.	533.	885.	514.	615.	722.	563.	874.
DIGO	59	2227.	1229.	1573.	1460.	902.	880.	900.	1739.	797.	981.	1049.	961.	1354.
TAITA	60	790.	835.	868.	850.	542.	821.	590.	553.	706.	488.	523.	615.	542.
TAVETA	61	1041.	490.	479.	589.	492.	648.	490.	560.	559.	452.	523.	386.	530.
		36	37	38	39	41	42	43	44	45	46	47	48	49
POKOMO	53	531.												
GIRIAMA	56	1017.	476.											
CHONYI	57	1212.	864.	1042.										
MID MJI KENDA	58	727.	652.	860.	1341.									
DIGO	59	888.	1006.	1350.	1600.	1120.								
TAITA	60	972.	566.	581.	1075.	905.	1317.							
TAVETA	61	523.	439.	939.	1104.	793.	935.	707.						
		52	53	56	57	58	59	60	61					

TABLE AP.3.5. : PCO ANALYSIS OF DG DISTANCES BETWEEN MINIMAL ETHNIC
POPULATION SAMPLES (MALES): BASED ON 26 SUMMARY
ATTRIBUTES.

VECTOR COORDINATES: POPULATION	VECT1	VECT2	VECT3	VECT4	VECT5	VECT6	D FROM CENTROID
SOMALI	14.94	7.22	-4.52	-3.98	4.00	4.57	372.39
RENDILLE	14.53	6.66	-2.38	-4.26	4.53	0.71	321.35
GABBARA	5.23	6.10	-13.80	0.15	-1.44	3.34	305.54
BORAN	5.95	6.42	0.44	-4.64	-2.01	5.70	150.37
BURJI	22.56	5.97	3.77	0.33	5.96	0.55	646.09
SAMBURU	1.02	12.61	-4.23	-1.38	5.61	1.89	223.84
KADJIADO MAASAI	3.18	1.50	-1.92	-3.99	1.04	-1.67	60.09
NAROK MAASAI	-0.79	9.55	3.67	-5.56	-1.02	0.00	263.26
NGUESI	14.05	2.49	-5.25	-0.73	1.03	3.17	314.01
MUKOGODO	25.73	6.20	2.69	-6.40	0.41	2.61	796.39
KONY	-33.24	3.70	0.99	-0.74	3.53	-3.15	1323.32
NANDI	0.43	2.07	-4.53	-0.12	-1.41	0.32	111.42
KIPSIGIS	11.54	3.36	3.66	-2.00	4.60	-1.22	230.47
TUGEN	-5.53	12.49	-3.00	-2.39	-5.24	-0.05	247.61
KEYO	-4.12	10.24	-7.06	-4.09	-1.02	-3.58	222.37
NARAKWET	2.79	5.21	-6.03	-2.20	3.96	-6.13	155.25
POKOT	-12.52	2.63	-5.56	1.23	-3.40	-4.00	277.35
ITESO	-16.31	-9.46	-4.21	-2.23	2.94	-4.35	446.40
TURKANA	7.55	-6.58	12.25	-4.73	2.54	0.81	331.30
LUO	1.96	-12.10	-2.02	-0.67	2.54	-4.00	201.91
GUSII	2.54	3.10	-1.41	4.00	-3.31	-4.40	91.19
TIRIKI	-3.83	-2.63	9.66	3.15	-10.23	-1.50	266.10
MARAGOLI	-12.96	0.19	-1.10	-7.97	5.34	2.70	300.25
BUNYORE	15.20	-1.63	-4.90	10.13	3.24	-6.75	523.58
IDAKHO	-0.33	-12.10	-13.40	2.73	2.30	2.74	501.07
MARANA	26.95	-3.21	4.45	-2.91	0.00	-11.40	919.06
WANGA	-11.01	-4.09	-0.77	6.60	-3.81	-0.57	406.46
MARACH	6.71	-0.11	4.13	-6.60	-0.43	-0.63	216.81
BUKHAYO	-16.33	2.02	-4.90	-0.36	3.10	4.47	474.05
SANIA	-4.92	4.31	4.09	5.22	-11.15	4.76	413.75
BUTSOTSO	0.00	-17.42	-15.20	-0.35	-4.05	1.12	700.25
BUNYALA	1.15	-10.03	4.09	-11.77	-0.19	-10.06	444.35
KABRAS	12.00	6.07	-1.07	3.66	-5.46	0.67	343.30
BUKUSU	-17.00	-0.25	4.63	5.55	5.10	-0.96	407.14
KIambu KIKUYU	6.49	2.33	-5.18	-3.90	-4.17	0.72	130.65
MURANGA KIKUYU	0.30	-7.47	4.47	-3.03	-0.94	-3.22	361.01
NYERI KIKUYU	-6.84	6.41	12.73	-1.03	-2.41	-0.95	203.90
NDIA	-7.00	0.45	1.06	2.30	1.59	-1.24	141.32
KAMBA	1.35	-5.53	-0.14	0.60	-2.72	4.41	121.60
EMBU	-11.31	1.03	-0.36	10.32	-3.46	0.91	304.21
MBERE	7.78	-4.60	4.95	2.35	1.10	1.00	161.65
CHUKA	-4.42	15.05	2.10	11.04	2.41	-0.52	405.56
MUTHAMBE	-3.67	1.56	-0.79	4.91	-2.20	-0.26	119.35
MWIMBI	-16.42	3.99	-2.97	-0.10	-2.61	-1.49	303.90
IGOJI	-0.20	0.15	-0.42	3.33	4.25	7.45	103.72
IMENTI	-3.20	6.40	5.92	7.99	11.01	-0.34	312.30
TIGANIA	-9.04	3.02	-0.46	-2.70	-5.07	-4.20	169.90
IGEMBE	-3.00	9.20	-3.64	4.00	3.90	-3.89	100.04
THARAKA	3.51	-1.02	0.20	-4.52	-7.30	5.22	230.90
POKOMO	-3.52	-0.23	1.42	0.20	1.20	5.30	67.07
MALAKOTE	5.00	-6.19	-1.69	0.34	-5.44	4.20	301.35
GIRIAMA	-0.21	-4.64	0.51	11.69	0.22	2.00	279.42
CHONYI	-0.69	-13.44	2.41	5.50	7.25	-2.27	290.90
MID MJI KENDA	0.16	-14.59	0.12	6.13	7.34	4.21	502.01
DIGO	14.73	-5.40	1.04	-1.09	-5.19	3.37	306.07
TAITA	-16.13	-15.19	-9.33	-6.71	3.50	7.01	717.23
TAVETA	-10.64	-5.26	10.59	-0.77	-0.41	3.19	566.37

LATENT ROOTS= (1) 7666.2 (2) 3006.9 (3) 2163.1 (4) 1712.8
(5) 1332.3 (6) 1139.5 (7) 831.4 (8) 623.3
(9) 516.4

PERCENTAGE

VARIANCE = (1) 40.0 (2) 16.1 (3) 11.3 (4) 8.9 (5) 7.0 (6) 6.0
(7) 4.3 (8) 3.2 (9) 2.7

TABLE AP.3.7. : PCO ANALYSIS OF DG DISTANCES BETWEEN MINIMAL ETHNIC
POPULATION SAMPLES (MALES): BASED ON 110 NON SUMMARY
ATTRIBUTES.

VECTOR COORDINATES: POPULATION	VECT1	VECT2	VECT3	VECT4	VECT5	VECT6	D FROM CENTROID
SOMALI	18.24	5.88	-8.41	-1.69	-1.58	-0.38	232.72
RENDILLE	9.36	3.64	1.81	-3.91	0.38	-0.69	238.18
GABBRA	3.78	7.32	-7.58	-9.58	1.24	-2.66	411.88
BORAN	3.41	6.18	4.15	-2.46	-0.32	-0.44	165.83
BURJI	18.84	2.41	4.85	-0.54	-3.79	7.64	577.76
SAMBURU	2.86	7.68	-1.87	-2.46	-3.16	1.74	238.66
KADJIADO MAASAI	4.76	6.41	-3.75	4.19	2.38	-0.34	268.27
NAROK MAASAI	-4.64	8.87	1.85	-0.86	7.86	-6.69	356.11
NGWESI	8.99	3.94	-1.52	-7.63	2.33	-2.55	358.15
MUKOGODO	18.83	6.82	3.88	2.45	-0.84	2.52	634.74
KONY	-21.61	12.28	7.79	6.75	3.41	4.76	922.45
NANDI	2.71	6.88	-4.82	-2.14	3.17	3.13	224.15
KIPSIGIS	9.28	6.18	2.65	2.49	5.84	1.54	295.43
TUGEN	-1.61	12.74	-0.27	0.58	-9.98	-0.61	248.48
KEYO	-2.68	7.49	-5.74	-0.49	-3.78	2.21	298.52
MARAKWET	4.93	7.66	-4.74	0.26	0.62	3.36	244.24
POKOT	-7.17	6.87	-6.25	0.19	6.78	0.38	367.95
ITESO	-11.25	-1.18	-4.19	5.27	-4.87	4.47	381.53
TURKANA	6.25	9.81	9.85	6.72	0.28	1.38	368.41
LUO	1.63	-4.58	-2.89	4.44	-0.16	2.83	129.55
GUSII	1.43	-2.16	-2.63	-0.35	-3.65	0.31	155.48
YIRIKI	-2.29	-6.73	4.37	-1.27	5.38	-3.94	348.87
MARAGOLI	-8.89	3.35	1.93	2.34	2.22	-3.88	489.94
BUNYORE	18.15	-6.74	-5.86	-3.62	1.38	0.81	425.89
IDAKHO	-5.98	-6.78	-14.38	0.89	5.87	-1.65	584.27
MARAMA	28.82	-1.58	-1.28	8.36	2.97	-1.51	746.87
WANGA	-18.53	-8.89	-5.88	0.61	-11.25	6.84	688.17
MARACH	6.35	8.78	3.92	12.52	4.54	4.55	586.58
BUKHAYO	-14.24	5.66	-5.72	5.32	-4.14	-2.38	691.81
SAMIA	-6.13	-6.52	9.73	-6.98	-1.38	-4.55	612.45
BUTSOTSO	5.16	-7.72	-17.65	9.32	1.24	-4.86	711.98
BUNYALA	-3.26	-6.87	7.83	13.65	-8.71	-18.75	736.88
KABRAS	7.22	-4.83	-1.91	-6.87	0.92	-12.54	515.85
BUKUSU	-9.38	8.95	1.69	-1.52	4.87	4.23	273.17
KIAMBU KIKUYU	3.76	3.68	-3.98	0.28	1.47	-0.18	192.98
MURANGA KIKUYU	4.23	-4.39	5.85	3.85	-0.54	2.63	368.64
MYERI KIKUYU	-5.88	2.48	9.11	1.23	3.88	-0.37	349.74
NDIA	-7.43	-2.32	1.82	-1.25	-0.26	1.49	283.83
KAMBA	8.42	-2.94	-0.35	-0.41	-2.98	1.91	168.74
EMBU	-9.59	-8.79	-8.68	-7.59	8.35	8.88	318.35
MBERE	5.72	-4.53	1.92	-0.97	3.48	0.35	287.15
CHUKA	-2.85	1.55	1.19	-11.44	-4.86	0.19	355.29
NUTHANBE	-1.81	-1.43	-0.45	-2.62	-4.68	-1.89	197.45
MUMBI	-12.15	3.72	-0.62	-3.55	-0.76	0.86	316.85
IGOJI	-1.65	-2.78	-1.63	-2.68	-0.85	-2.26	222.28
IMENTI	8.27	-0.56	3.85	-4.38	-3.79	6.58	279.68
TIGANIA	-7.21	8.44	1.85	8.88	-3.81	-1.39	176.81
IGEMBE	-8.78	2.67	-1.78	-5.77	-6.82	3.89	238.31
THARAKA	8.94	-1.88	8.12	1.47	1.38	-6.18	266.84
POKOMO	-2.53	1.29	2.34	-1.68	0.79	0.79	112.29
MALAKOTE	4.67	-6.35	-5.88	2.52	-0.87	6.38	442.48
GIRIAMA	-1.56	-13.26	6.18	-8.12	-1.24	-3.13	472.22
CHOMVI	-0.83	-11.19	-1.12	1.96	0.25	2.26	318.88
MID MJI KENDA	6.54	-11.82	5.33	1.86	3.57	4.18	517.53
DIGO	9.19	-4.43	2.48	-0.92	2.27	-4.13	224.22
TAITA	-13.86	-3.62	-8.79	2.41	2.88	-3.68	486.55
TAVETA	-15.12	-2.36	8.85	1.83	6.78	8.82	516.15

LATENT ROOTS: (1) 4027.6 (2) 2884.3 (3) 1697.4 (4) 1373.7 (5) 1858.4
(6) 1013.6 (7) 956.1 (8) 788.4 (9) 712.4

PERCENTAGE
VARIANCE : (1) 19.3 (2) 9.9 (3) 8.8 (4) 6.5 (5) 5.8 (6) 4.8
(7) 4.5 (8) 3.7 (9) 3.4

TABLE AP.3.8. : PCO ANALYSIS OF DG DISTANCES BETWEEN MINIMAL ETHNIC
POPULATION SAMPLES (FEMALES): BASED ON 110 NON SUMMARY
ATTRIBUTES.

VECTOR COORDINATES: POPULATION	VECT1	VECT2	VECT3	VECT4	VECT5	VECT6	D FROM CENTROID
SOMALI	19.61	-9.11	0.60	-1.51	3.22	3.04	332.22
RENDILLE	15.32	-4.81	5.51	5.40	4.31	6.53	593.94
GABBRA	15.29	-9.24	1.34	0.93	3.12	-0.68	451.39
BORAN	-3.56	0.17	-2.79	-1.61	2.46	0.04	200.03
BURJI	5.13	0.63	-3.14	-2.71	3.25	-0.77	178.99
SAMBURU	8.74	-4.94	-0.76	1.98	-1.31	0.58	245.46
KADJIADO MAASAI	3.06	3.35	-4.49	5.07	2.74	-1.01	160.56
KONY	-19.47	-14.28	0.02	3.96	-1.70	0.22	857.60
NANDI	0.26	0.45	-6.54	4.28	0.50	-2.26	217.90
KIPSIGIS	-0.97	-1.90	-5.92	-0.02	3.40	0.89	104.60
TUGEN	-2.23	-9.32	1.42	-1.41	-3.22	3.30	215.00
KEYO	-6.78	-5.43	-0.86	1.14	-5.92	-1.22	243.99
MARAKVET	-4.07	-6.93	-6.70	1.54	-1.12	-6.70	323.50
POKOT	2.40	-5.33	-11.13	3.43	-1.81	-1.12	312.07
ITESO	1.99	-1.09	3.75	4.50	1.71	3.30	217.40
TURKANA	3.63	-0.44	1.09	6.63	1.99	-0.06	251.11
LUD	5.90	0.02	1.45	7.22	2.47	-3.50	219.00
GUSII	4.92	5.96	1.49	-1.18	1.51	-3.20	235.75
TIRIKI	5.28	5.68	7.99	5.89	-10.03	7.15	494.46
MARAGOLI	-2.25	-2.00	12.19	-2.22	1.97	-0.00	413.65
BUNYORE	-7.94	-2.79	4.64	-17.30	4.30	1.60	656.07
IDAKHO	-7.32	-0.96	10.01	6.14	-2.50	-1.93	655.90
MARAMA	13.02	2.60	2.46	-0.36	-1.01	-7.00	524.65
WANGA	-9.02	7.36	-1.16	-9.41	-0.53	-6.74	479.39
MARACH	-2.09	-3.33	4.21	1.45	-6.10	-1.06	363.63
BUKHAYO	-5.76	-4.30	3.29	0.77	-1.96	-3.21	275.14
SAMIA	14.49	-0.17	-6.03	5.94	-7.52	-4.00	622.14
BUTSOTSO	-6.00	-1.75	-0.46	0.32	-4.62	-9.76	417.37
BUNYALA	-5.16	5.43	-6.95	-0.25	6.72	6.79	501.03
KABRAS	-15.95	15.64	3.31	2.40	-3.59	2.94	777.46
BUKUSU	-13.35	-5.90	3.74	7.33	9.92	5.55	631.95
KIABU KIKUYU	1.37	1.91	-10.20	5.79	2.75	-2.90	347.20
MURANGA KIKUYU	-6.44	3.32	-10.42	-4.06	3.55	2.90	396.11
NYERI KIKUYU	-5.25	-1.23	-3.54	0.84	-1.89	-2.10	309.00
NDIA	2.51	-3.67	1.10	-2.07	-1.55	-2.20	131.77
KAMBA	0.06	-1.09	2.06	-2.50	-5.89	4.21	275.01
EMBU	0.25	-1.17	2.62	-6.14	0.00	2.24	163.95
NBERE	-10.74	-3.60	0.10	-3.01	3.00	0.34	240.50
CHUKA	7.96	-1.16	1.01	-7.71	-1.53	0.40	279.24
MUTHAMBE	2.05	-3.29	2.43	-3.99	-0.51	-1.33	160.61
MWINBI	-0.02	1.05	0.05	-3.67	2.50	-0.76	214.63
IGOJI	0.45	3.06	-3.57	-2.32	1.16	1.09	165.90
IMENTI	-4.21	0.17	1.02	0.97	5.00	-2.53	276.12
TIGANIA	-6.59	-0.04	0.40	2.76	-2.16	0.67	324.09
IGEMBE	-7.26	-0.21	-10.26	-1.07	-0.75	5.75	452.92
THARAKA	5.22	4.05	-5.06	-12.27	-0.65	4.02	379.46
POKOMO	-2.47	5.36	-1.41	0.22	1.64	-1.49	175.90
GIRIAMA	-5.24	7.72	9.21	-2.55	2.90	-9.21	443.95
CHOMBI	-5.13	17.75	0.27	10.20	0.60	1.00	705.01
MID NJI KENDA	3.53	4.35	2.06	-6.32	-13.66	3.21	479.03
DIGO	24.47	7.49	3.07	-2.75	4.52	0.01	094.29
TAITA	-3.29	2.07	11.94	2.50	3.90	0.73	300.50
TAUETA	4.24	3.76	-7.00	-0.36	3.49	0.46	270.16

LATENT ROOTS : (1) 3569.6 (2) 1690.0 (3) 1509.4 (4) 1330.2
(5) 1011.9 (6) 833.3 (7) 700.7 (8) 719.0
(9) 674.4

PERCENTAGE
VARIANCE : (1) 10.0 (2) 8.5 (3) 7.6 (4) 6.8 (5) 5.1
(6) 4.2 (7) 4.0 (8) 3.6 (9) 3.4

TABLE AP 3.9 . UNROTATED COMPONENT SCORES (MALES)
BASED ON 26 SUMMARY TRAITS.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6
SOMALI	1.32	-0.56	-0.89	0.46	-1.50	0.73
RENDILLE	1.25	-0.65	-0.59	0.61	-1.19	-0.13
GABBRA	0.47	-0.14	-2.36	0.07	-0.14	0.76
BORAN	0.53	-0.42	-0.12	0.89	-0.35	1.64
BURJI	1.96	-0.95	0.42	-0.17	-1.07	-0.23
SAMBURU	0.14	-1.46	-1.05	0.21	-1.35	0.14
KADJIADO MAASAI	0.28	0.02	-0.31	0.95	-0.37	-0.53
NAROK MAASAI	-0.72	-1.14	0.27	1.35	-0.24	0.44
NGWESI	1.21	0.03	-0.84	-0.14	-0.55	0.42
MUKOGODD	2.23	-0.45	0.28	1.13	-0.74	0.73
KONY	-2.90	-0.71	1.40	1.51	-0.82	-0.91
NANDI	0.02	-0.13	-0.85	0.13	0.14	0.17
KIPSTIGIS	1.00	-0.60	0.49	0.32	-0.86	-0.71
TUGEN	-0.42	-1.24	-0.82	1.06	0.91	0.45
KEYO	-0.33	-0.91	-1.39	1.24	0.46	-0.41
MARAKWET	0.23	-0.60	-1.09	0.51	-0.21	-1.72
POKOT	-1.07	-0.23	-0.96	0.19	1.10	-0.74
ITESO	-1.45	1.27	-0.37	0.01	-0.36	-1.24
TURKANA	0.64	0.57	2.11	0.47	-0.87	-0.14
LUG	0.09	1.50	0.05	-0.25	-0.16	-1.25
GUSII	0.19	-0.51	-0.42	-0.28	1.21	-0.52
TIRIKI	-0.34	0.02	1.52	0.11	2.29	0.59
MARAGOLI	-1.09	0.11	-0.02	1.04	-1.51	-0.21
BUNYORE	1.25	-0.33	-0.87	-1.79	0.67	-1.83
IDAKHO	-0.79	1.81	-1.66	-1.12	-0.48	0.10
MARAMA	2.27	0.13	0.75	0.71	0.85	-2.66
WANGA	-0.99	0.61	-1.30	-0.31	1.93	-1.49
MARACH	0.54	1.10	0.93	0.97	-0.26	-0.22
BUKHAYO	-1.40	0.17	-0.78	1.20	-1.58	0.74
SAMIA	-0.41	-0.54	0.46	-0.47	1.71	2.26
BUTSOTSD	0.61	2.95	-1.89	-0.22	0.70	0.41
BUNYALA	0.05	1.43	1.08	1.97	0.23	-2.28
KABRAS	1.08	-0.69	-0.38	-0.12	1.14	0.86
BUKUSU	-1.43	-0.57	0.68	-1.20	-0.54	-0.70
KIAMBU KIKUYU	0.53	0.19	-0.85	0.95	0.49	0.63
MURANGA KIKUYU	0.70	1.12	1.02	1.15	1.96	-0.09
NYERI KIKUYU	-0.51	-1.21	1.80	0.79	0.55	0.13
NDIA	-0.69	-0.33	0.15	-0.32	0.07	-0.38
KAMBA	0.10	0.89	0.19	-0.23	0.16	1.23
EMBU	-0.98	-0.50	-0.12	-1.60	1.12	0.82
MBERE	0.66	0.27	0.88	-0.71	-0.20	0.14
CHUKA	-0.27	-2.45	-0.20	-1.61	0.22	-0.03
MUTHAMBE	-0.26	-0.27	-0.14	-0.60	0.83	0.04
MWIMBI	-1.38	-0.39	-0.53	0.31	0.70	0.14
IGOJI	-0.03	-0.09	-0.11	-1.07	-1.38	1.26
IMENTI	-0.23	-1.56	0.67	-1.82	-1.64	-0.80
TIGANIA	-0.77	-0.33	-0.20	0.98	1.15	-0.34
IGEMBE	-0.22	-1.36	-0.88	-0.77	-0.06	-1.15
THARAKA	0.32	0.34	1.41	1.07	0.75	1.61
POKOMO	-0.29	0.03	0.27	-0.29	-0.71	1.11
MALAKOTE	0.41	0.80	-0.15	-1.34	1.01	1.22
GIRIAMA	0.03	-0.10	1.48	-2.18	0.52	0.42
CHONYI	-0.12	1.09	0.74	-1.68	-0.78	-1.46
MID MJI KENDA	0.67	1.31	1.72	-2.09	-1.40	0.13
DIGO	1.26	0.90	0.49	0.26	0.54	1.05
TAITA	-1.46	2.53	-0.92	0.26	-1.89	0.77
TAVETA	-1.50	0.21	1.79	-0.05	-0.29	0.62

TABLE AP 3.10 UNROTATED COMPONENT SCORES(FEMALES):
BASED ON 26 SUMMARY TRAITS.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6
SOMALI	1.16	0.48	-1.27	0.16	-0.38	0.38
RENDILLE	1.89	1.55	-1.00	-0.26	-1.00	0.86
GABBARA	1.58	0.29	-2.20	0.10	-0.78	-0.01
BORAN	-0.29	-0.53	-0.71	0.02	-0.97	1.86
BURJI	0.59	-0.16	0.09	-1.77	1.33	-0.51
SAMBURU	0.81	0.26	-1.09	0.43	-0.01	0.31
KADJIADO MAASAI	0.33	-0.07	0.59	-0.82	0.79	1.39
KONY	-2.32	1.07	-0.99	0.43	0.23	0.69
NANDI	0.00	-0.10	-0.09	-1.14	-0.36	0.72
KIPSIGIS	-0.08	-0.37	-0.21	-0.02	-1.02	0.99
TUGEN	-0.33	0.00	-1.20	1.62	0.23	-0.99
KEYO	-0.91	0.45	0.01	0.58	0.93	-1.00
MARAKWET	-0.78	-0.33	-0.56	-0.39	0.64	0.34
POKOT	0.01	-1.26	-0.94	-0.13	1.51	0.50
ITESO	0.32	0.65	-0.47	0.20	0.28	1.62
TURKANA	0.45	1.29	0.65	0.99	0.44	1.77
LUO	0.70	1.22	0.79	0.39	-0.11	0.33
GUSII	0.79	-0.29	1.30	0.11	-0.14	-0.49
TIRIKI	0.91	1.09	1.41	2.20	0.26	-0.31
MARAGOLI	-0.10	0.26	-0.18	1.60	0.51	-0.65
BUNYORE	-0.99	-0.51	-0.34	1.31	2.35	-0.04
IDAKHO	-0.76	2.40	0.75	0.03	-0.37	-0.61
MARAMA	1.27	0.47	0.31	-0.22	1.25	1.04
WANGA	-1.13	-1.32	1.28	-0.56	1.15	-0.16
MARACH	-0.22	-0.86	-1.36	0.95	0.25	-0.11
BUKHAYO	-0.33	0.68	-0.03	1.64	0.00	-0.44
SAMIA	1.50	-0.83	-0.02	1.18	0.08	0.61
BUTSOTSO	-0.98	-0.72	-0.46	0.19	0.10	-1.15
BUNYALA	-0.13	-1.38	0.33	0.09	-1.64	1.91
KABRAS	-1.44	-0.88	2.40	0.83	-2.19	1.27
BUKUSU	-2.12	2.33	-1.84	-1.94	-0.51	-0.06
KIAMBU KIKUYU	0.16	-0.72	-0.12	-1.22	0.20	1.73
MURANGA KIKUYU	-0.78	-1.46	0.78	-0.65	2.12	0.51
NYERI KIKUYU	-0.56	-1.28	-1.12	-0.15	-1.72	-0.73
NDIA	0.32	-0.65	-0.50	0.84	-0.38	-0.75
KAMBA	1.14	-0.08	-0.60	1.85	-1.16	-0.36
EMBU	0.23	-0.37	-0.80	-0.54	-1.20	-0.74
MBERE	-1.32	-0.02	-0.89	0.04	-1.11	0.00
CHUKA	0.77	-0.24	-0.75	-1.31	-0.04	-2.32
MUTHAMBE	-0.18	-0.33	-0.58	-0.16	1.17	-1.72
MWIMBI	0.01	-0.02	0.25	0.33	1.66	0.53
IGOI	0.04	-0.76	0.29	-1.38	-0.63	-0.55
IMENTI	-0.69	0.84	-0.65	-2.15	-0.16	-0.66
TIGANIA	-0.30	0.38	0.57	1.10	-0.70	-0.56
IGEMBE	-0.82	-1.21	0.48	0.58	-0.03	0.33
THARAKA	0.59	-2.24	0.43	0.08	0.68	-1.33
POKOMO	-0.13	-0.13	0.94	-0.97	-0.62	1.14
GIRIAMA	-0.43	0.97	1.28	-1.31	0.42	0.19
CHONYI	-0.49	-0.12	2.74	-0.51	-1.91	-1.47
MID MUI KENDA	0.27	-0.15	0.58	-0.18	-1.39	-2.19
DIGO	3.31	0.53	1.26	-1.00	0.23	-0.68
TAITA	-0.26	2.78	1.42	0.10	1.20	-0.63
TAVETA	0.42	-0.60	0.02	-1.48	0.54	0.17

Table Ap.3.11: Rotated component scores(males):
based on 26 summary traits.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6
SOMALI	0.78	-1.41	-1.01	-0.70	0.97	-0.88
RENDILLE	0.61	1.43	-0.67	-0.90	0.18	-0.54
GADURA	1.94	-0.37	-1.13	-0.49	0.99	-0.10
BOHRA	0.14	0.81	-1.34	0.37	1.21	0.15
BUKJI	0.40	2.14	-0.25	-0.07	-0.48	-1.05
SAMURU	0.36	0.36	-1.50	-1.12	0.03	-1.10
KADJIADU MAASAI	0.10	0.52	-0.11	-1.00	0.02	0.46
NARUK MAASAI	-1.13	0.09	-1.49	-0.55	0.00	0.44
IKHESI	1.14	0.82	-0.25	-0.08	0.61	-0.49
MUKUGUDU	0.36	2.55	-0.76	0.02	0.62	0.14
KURY	3.09	-1.07	-0.40	-1.66	-0.62	0.39
NANDI	0.63	-0.27	-0.48	-0.21	0.19	0.12
KIPISIGIS	0.14	1.42	0.02	-0.62	-0.59	-0.44
TUGEN	0.21	-0.45	-1.82	-0.13	-0.31	0.94
KEYO	0.65	-0.42	-1.37	-1.14	-0.40	0.91
MARAKET	0.08	0.09	-0.14	-1.67	-1.12	0.16
PUKOT	0.45	1.46	-0.32	-0.47	-0.76	0.82
ITESSO	-0.31	-1.37	1.32	-1.32	0.11	0.20
TURKANA	-1.56	1.61	1.05	0.16	0.17	-0.03
LUU	0.29	-0.10	1.83	-0.64	-0.04	0.22
GUSII	0.78	-0.36	-0.22	0.38	-1.05	0.49
TIRIKI	-0.09	-0.38	0.04	2.03	-0.69	1.58
BUNYORE	-1.13	-0.18	-0.19	-1.64	0.72	-0.23
MARAGH I	2.04	0.06	0.96	0.08	-1.91	-0.74
BUKUYO	1.22	-1.63	1.18	-0.49	1.39	-0.64
MARARA	0.85	2.11	1.45	-0.61	-2.16	1.31
WANGA	1.35	-2.14	0.88	-0.09	-1.24	0.95
MARACH	-0.63	1.02	0.96	-0.27	0.54	0.84
BUKUYO	-0.85	-0.64	-0.96	-1.47	1.77	-0.26
SAPTA	-0.31	-0.76	-1.26	2.50	0.47	0.50
BUTSOTISO	2.25	-0.75	1.63	0.08	1.99	1.06
BUNYALA	-0.92	0.79	1.81	-1.65	-0.69	2.10
KABRAS	1.00	0.48	-0.95	1.22	-0.18	0.42
BOKUSU	-1.07	-1.09	0.38	-0.14	-0.94	-1.29
KIAMBU KIKUYU	0.77	0.26	-0.67	-0.05	0.72	0.97
MURANGA KIKUYU	-0.15	0.60	0.81	0.99	-0.15	2.43
NYERI KIKUYU	-1.86	-0.42	0.78	-0.60	-0.98	0.60
NDA	0.37	-0.60	0.00	-0.09	-0.54	-0.25
KAHIA	0.02	-0.07	0.26	0.95	1.19	0.10
EMBU	0.14	-1.60	-0.40	1.57	-0.38	-0.58
MBERE	-0.20	0.68	0.69	0.76	-0.03	-0.54
CHUKA	0.24	-0.56	-1.44	0.75	-1.74	-1.65
MUTHAMBE	0.29	-0.66	-0.13	0.65	0.50	0.05
IKOJI	-0.26	-1.40	-0.76	-0.16	-0.15	0.54
IKENTIA	-0.10	0.02	-0.27	0.40	1.12	-1.78
IGEMBE	0.64	0.14	-0.01	-0.26	-1.32	-2.71
IGEMBE	-0.22	-0.71	-0.58	-0.24	-0.56	1.36
TURAKA	0.72	-0.55	-0.55	-0.68	-1.49	-0.88
PURUMU	-1.14	0.83	-0.40	1.40	0.94	1.25
MALAKUTE	-0.55	0.03	-0.30	0.41	0.94	-0.74
GIRIANA	0.97	-0.50	0.45	1.66	0.67	-0.13
CHUNYI	-0.50	-0.25	0.06	2.10	-0.70	-1.20
MID HJI KENDA	0.16	-0.24	2.29	-0.20	0.61	-1.26
DIGU	0.68	0.79	2.29	1.06	0.51	-1.99
TAITA	0.35	1.00	0.35	1.23	0.90	0.79
TAIETA	-0.39	-1.20	1.11	-1.26	3.06	-0.47
TAIETA	2.79	-0.66	0.31	0.57	0.32	-0.19

Table Ap.3.12: Rotated component scores(females):
based on 26 summary traits.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6
SOMALI	1.22	-0.69	0.81	0.40	-0.40	0.76
RENDILLE	2.11	0.02	0.58	0.93	-0.56	1.40
GADURA	1.60	-1.43	1.40	0.14	-0.15	1.31
BOHRA	0.55	-0.94	-0.97	-0.39	-1.67	-0.46
BUKJI	-0.20	-0.57	-0.58	1.39	1.70	0.07
SAMURU	0.84	-0.66	0.83	0.33	-0.45	-0.24
KADJIADU MAASAI	0.47	-0.10	-1.37	1.14	-0.19	0.50
KONY	-1.93	-0.04	0.38	0.55	-1.96	0.44
NANDI	0.15	-0.43	-1.08	0.33	-0.04	0.71
KIPISIGIS	0.49	-0.36	-0.59	-0.59	-0.41	0.42
TUGEN	-0.49	-0.42	2.02	-0.59	-0.14	0.62
KEYO	-1.27	0.47	1.03	0.21	0.14	0.62
MARAKET	-0.82	-0.80	-0.29	0.44	-0.30	0.20
PUKOT	-0.22	-1.76	-0.10	0.63	0.03	1.31
ITESSO	0.74	-0.21	-0.21	1.03	-1.34	0.00
TURKANA	1.03	1.13	-0.13	1.11	-1.62	0.41
LUU	0.84	1.33	0.17	0.55	-0.27	0.10
GUSII	0.67	0.08	-0.31	-0.48	0.93	0.51
TIRIKI	0.94	2.15	-1.27	-0.18	-0.37	1.24
MAKAGULI	-0.20	0.40	1.49	-0.27	-0.33	0.88
BUNYORE	-1.24	-0.50	1.02	0.62	-0.60	2.37
IDAKHO	-0.81	2.16	0.59	0.69	-0.26	1.11
MAHAMA	1.17	0.08	-0.32	1.61	0.01	0.74
WANGA	-1.34	-0.02	-1.33	-0.13	0.75	1.47
MARACH	-0.20	-1.33	0.98	-0.54	-0.54	0.53
BUKUYO	-0.67	0.84	1.28	-0.47	-0.91	0.43
SAPTA	1.72	-0.41	0.35	-0.44	-0.26	1.09
BUTSOTISO	-1.26	-0.54	0.56	-0.80	0.45	0.18
BUNYALA	0.94	-0.56	-1.80	-1.43	-1.37	-0.12
KABRAS	-2.23	1.69	-2.16	-2.45	-1.45	0.28
BOKUSU	0.49	-1.06	-1.75	0.69	-0.45	-0.01
KIAMBU KIKUYU	-1.06	-0.74	-1.37	0.77	0.53	2.02
MURANGA KIKUYU	-0.39	-1.25	0.11	1.94	0.10	1.11
NYERI KIKUYU	0.24	-0.43	0.91	-1.01	0.21	0.71
NDA	1.43	0.08	1.56	-1.34	-0.53	0.03
KAHIA	-0.97	-0.68	0.23	-0.87	0.55	1.33
EMBU	-0.27	-0.45	0.10	-0.85	-0.90	-1.04
CHUKA	-1.04	-0.59	1.11	0.24	1.38	0.46
MUTHAMBE	-0.14	-0.06	-0.01	1.09	-0.18	1.40
IKOJI	-0.17	-0.37	-0.97	-0.52	1.18	-0.71
IKENTIA	-1.16	-0.33	-0.43	0.95	0.87	-1.84
IGEMBE	-0.56	1.12	-0.61	-1.00	-0.44	0.99
IGEMBE	0.28	-0.93	0.02	-1.09	1.95	1.52
TURAKA	0.30	0.36	-1.76	0.37	-0.39	-0.39
GIRIANA	-0.58	1.17	-1.17	1.11	0.49	0.35
CHUNYI	-0.42	2.38	-1.22	-2.00	1.45	-0.66
MID HJI KENDA	-0.14	0.79	0.59	-1.58	1.68	-0.94
DIGU	2.62	0.93	-0.10	0.97	2.88	-0.12
TAITA	-0.69	2.64	0.72	1.90	0.25	0.02
TAIETA	0.11	0.79	-1.02	0.68	0.96	0.07

TABLE AP.3.13 : UNROTATED COMPONENT SCORES : BASED ON 26 MALE AND 26 FEMALE SUMMARY TRAITS.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10	COMP11
SONALI	1.49	0.03	-0.98	-1.46	0.63	0.56	-0.05	-0.56	-0.33	0.02	0.23
RENDILLE	1.07	0.78	-0.78	-1.94	0.30	0.93	0.33	0.29	-0.92	0.02	-0.20
GABBRA	1.28	1.27	-1.47	-1.25	1.50	-0.84	-1.05	-0.76	-0.29	-0.46	-0.43
BORAN	0.24	-0.73	-0.78	-0.01	0.40	0.98	-0.30	-0.61	-1.72	-0.41	1.23
BURJI	1.57	-1.37	-0.49	-0.87	-1.00	-0.01	-0.36	1.40	0.61	1.09	0.07
SAMBURU	0.57	0.65	-1.54	-0.93	0.39	0.03	0.42	0.03	-0.61	0.24	-0.73
KADJIADO MAASAI	0.42	-0.10	0.16	-0.04	0.40	0.31	-0.15	1.93	-0.59	0.04	0.05
KONY	-3.00	0.59	-0.59	-0.05	-0.43	2.41	0.41	0.55	0.27	-0.33	-0.47
NANDI	0.07	-0.04	-0.34	-0.28	0.24	-0.47	-0.64	0.86	-0.95	-0.36	1.11
KIPSIGIS	0.60	-1.00	-0.44	-0.23	-0.18	0.98	-0.09	-0.11	-0.07	-0.28	-0.84
TUGEN	-0.43	0.20	-1.52	0.17	0.99	0.11	1.20	-0.90	0.02	0.69	0.16
KEYO	-0.74	-0.30	-0.72	-0.32	1.24	-0.36	1.37	0.70	0.34	1.37	0.71
KARAKUET	-0.33	-0.90	-0.05	-0.45	0.90	-0.19	-0.33	1.25	0.14	-0.09	-0.76
POKOT	-0.50	0.60	-1.10	1.07	1.02	-0.71	-0.00	1.10	0.05	-0.00	0.66
ITESO	-0.70	1.61	0.63	-0.16	0.71	0.36	-0.95	0.77	-0.04	-1.03	-1.10
TURKANA	0.68	-0.09	1.24	-0.55	-0.62	2.46	1.25	0.01	0.41	-0.54	0.29
LUO	0.46	0.66	1.62	-0.61	0.34	0.09	0.12	0.35	0.41	-0.75	-0.85
GUSII	0.44	0.32	0.17	0.69	-0.07	-1.19	1.00	0.69	-0.62	-0.11	-1.16
IRIKI	0.31	1.12	1.09	1.12	-0.34	0.58	2.90	-0.62	1.31	-0.50	1.20
KARAGOLI	-0.70	0.98	0.00	0.04	0.70	0.09	0.25	-0.22	0.41	2.12	-2.27
BUNYORE	0.15	-2.21	-0.39	-0.51	0.72	-1.10	1.32	-0.96	2.00	-2.16	-1.25
IDAKHO	-0.99	0.41	1.05	-1.96	0.07	-1.39	0.39	-0.66	0.02	-0.59	1.40
KARAMA	2.11	-1.01	0.47	-0.47	0.30	1.03	0.74	1.07	1.40	-1.33	-0.40
UANGA	-1.21	-0.57	0.56	1.42	0.55	-2.41	-0.39	1.31	0.11	-0.01	-0.95
KARACH	0.23	-0.71	-0.01	0.49	0.00	1.70	-1.20	-1.25	1.16	-0.03	0.25
BUKHAYO	-1.34	0.70	0.09	-0.30	1.22	0.63	0.54	-0.64	-1.02	1.73	-1.13
SANIA	0.77	1.53	-0.59	1.66	-0.21	-0.39	1.11	-1.30	-0.45	-2.17	1.73
BUTSOTSO	-0.19	-1.30	1.27	-0.19	2.44	-1.27	-2.40	-1.63	0.24	0.01	0.02
BUNYALA	0.03	-0.50	0.04	1.53	0.60	1.92	-1.36	0.65	-1.12	-2.09	-1.20
KABRAS	-0.12	-2.55	0.57	0.73	0.17	-0.35	2.30	-0.53	-3.09	0.27	0.44
BUKUSU	-2.10	-0.31	-0.55	-2.36	-1.55	0.65	-0.75	0.13	1.14	-1.06	1.67
KIAMBU KIKUYU	0.50	-0.47	-0.29	0.29	0.02	-0.12	-1.02	1.21	-1.04	-0.19	1.72
MURANGA KIKUYU	0.00	-1.60	0.03	1.74	0.29	0.30	-0.70	1.30	1.75	1.01	1.42
NYERI KIKUYU	-0.55	-0.30	-1.39	1.30	-1.10	1.30	-0.59	-0.04	-0.32	0.65	-0.42
NDIA	-0.10	0.75	-0.57	0.74	-0.14	-0.26	-0.16	-0.04	0.44	0.05	-1.55
KANBA	0.79	0.97	0.26	0.36	0.36	0.19	0.10	-2.49	0.31	0.33	0.14
EMBU	-0.40	0.91	-0.77	0.45	-0.96	-1.30	-0.57	-1.13	-0.26	-0.00	0.36
MBERE	-0.36	-1.71	-0.05	-0.60	-0.42	0.73	-0.57	-1.60	0.41	-0.14	0.42
CHUKA	0.32	0.69	-1.97	-0.26	-1.04	-1.71	0.44	0.07	0.57	0.42	0.49
MUTHAMBE	-0.26	0.04	-0.52	0.24	-0.17	-0.96	-0.43	0.11	1.50	1.29	-1.00
MUMBI	-0.70	1.14	-0.20	0.73	0.40	-0.61	0.61	1.16	0.24	0.40	-0.12
IGOJI	0.10	-0.15	-0.12	-0.10	-1.05	-0.93	-1.19	-0.54	-1.32	0.71	0.35
INENTI	-0.57	-0.46	-0.90	-1.66	-2.20	-0.32	-0.46	0.63	-0.13	-0.15	-0.66
TIGANIA	-0.91	0.00	0.07	0.44	0.65	0.31	1.55	-0.07	-0.40	0.49	0.36
IGEMBE	-0.57	-0.91	-0.97	0.50	0.07	-1.05	1.07	0.20	-0.06	-0.22	-0.55
THARAKA	0.00	0.12	-0.03	2.43	-0.36	0.40	-0.79	-0.52	0.03	1.00	1.13
POKOMO	-0.10	0.02	0.46	0.14	-0.70	-0.07	-0.34	0.47	-1.00	0.21	0.64
GIRIANA	-0.22	-0.51	1.09	-0.40	-2.24	-0.61	0.60	0.49	0.47	-0.05	1.11
CHONYI	-0.33	-0.61	2.10	0.24	-1.52	-1.10	0.12	-0.42	-1.00	-0.21	-2.30
MID MJI KENDA	0.50	-0.41	1.44	-0.20	-1.06	-0.17	-1.10	-2.23	0.33	0.51	-1.25
DIGO	2.79	1.76	1.25	0.20	-0.63	-0.45	-0.17	0.09	0.26	0.62	-0.17
TAITA	-1.05	1.50	2.65	-1.01	0.90	-0.10	0.01	0.30	0.01	1.70	1.00
TAVETA	-0.61	1.55	0.13	1.25	-1.49	0.60	-1.50	0.00	0.05	-0.79	0.60

Table Ap.3.14: Rotated component scores: based on
26 male and 26 female summary traits

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10	COMP11
SOMALI	0.36	1.49	-0.93	-0.70	0.32	-0.50	-0.72	-0.91	0.31	0.37	0.30
RENDILLE	1.58	0.04	-0.93	-1.06	1.71	-1.35	-0.45	-1.24	0.31	-0.32	0.27
GABBRA	-0.28	1.02	-0.45	-0.66	-0.68	-0.77	-1.04	0.75	0.94	-0.36	1.41
BORAN	0.06	2.03	-0.29	0.89	0.37	-0.25	-0.59	0.61	-0.24	1.20	-2.22
BURJI	1.78	1.43	-1.24	-1.35	0.01	0.34	-0.92	-0.54	0.30	0.66	-0.13
SAMBURU	0.92	0.22	-0.77	-0.97	0.46	-0.19	-1.41	-0.73	-0.27	-0.26	-0.29
KADJADDO MAASAI	0.51	0.37	0.63	-1.00	0.17	0.19	-0.24	1.34	-0.09	0.72	-0.55
KONY	-1.71	-1.61	-0.06	-1.80	-2.50	0.00	-0.31	-0.41	-0.32	0.52	-0.34
NANDI	0.22	-0.07	-0.28	-0.34	0.57	-0.54	-0.52	1.34	0.54	0.54	0.52
KIPSIGIS	-0.14	1.41	-0.57	-0.85	-0.51	-0.17	-0.10	0.33	-0.40	-0.85	-0.15
TUGEN	-0.59	-0.17	0.69	0.12	0.13	-0.34	-1.58	-1.87	-0.28	-0.07	0.30
KEYO	-1.11	-0.02	1.07	-0.14	0.81	0.53	-1.79	-0.54	0.17	0.95	-0.26
MARAKWET	-0.73	0.35	0.31	-1.28	1.05	-0.62	-0.24	0.35	-0.56	0.21	-0.75
POKOT	0.26	-1.41	1.27	-0.35	0.80	-1.75	-0.14	0.37	-0.47	0.65	0.43
ITESO	1.01	-1.61	0.02	-2.01	-0.01	-0.15	1.54	0.13	-0.25	-0.01	0.25
TURKANA	0.29	1.34	0.06	-0.46	-2.14	1.32	0.72	-0.52	-0.47	1.04	0.60
LUO	0.84	-0.05	0.13	-0.71	0.27	1.17	1.58	-0.31	-0.09	0.30	-0.04
GUSII	0.95	-0.21	0.48	0.10	0.94	1.12	-0.38	0.52	-1.01	-0.99	-0.29
TIRIKI	0.65	-0.37	1.51	1.46	-1.31	1.35	-0.18	-1.30	-1.01	0.90	1.39
MARAGOLI	-0.11	-0.59	0.75	-0.93	-0.55	0.75	-0.38	-1.74	0.48	-1.01	-2.37
BUNYORE	-1.53	1.10	0.28	0.24	2.03	-0.30	1.53	-2.09	-2.87	-0.07	1.13
IDAKHO	-0.72	-0.86	-0.92	0.07	1.50	1.54	0.86	-0.39	1.50	1.42	1.58
MARAMA	0.98	2.21	0.98	-0.99	0.19	0.23	1.19	0.07	-1.97	1.51	-0.05
WANGA	-0.73	-1.57	1.22	0.06	2.07	0.02	0.91	1.52	-0.98	-0.68	-0.22
MARACH	-0.61	1.01	0.74	-0.19	-1.09	-1.61	1.10	-1.16	0.83	-0.13	0.23
BUKHAYO	-0.68	-0.77	0.23	-1.26	-0.34	1.15	-1.09	-1.09	1.38	-1.05	-0.98
SAMIA	1.68	-0.87	0.30	1.11	-0.57	-0.44	-0.60	-0.15	-0.54	-0.50	3.30
BUTSOTSO	-1.29	0.47	0.54	0.10	2.03	-1.28	1.84	-0.26	2.77	-0.53	0.67
BUNYALA	0.37	0.38	0.95	-2.23	-1.37	-0.74	1.95	1.50	-0.35	-1.49	0.61
KABRAS	-1.65	1.73	0.19	0.19	0.14	2.22	-1.78	1.77	0.12	-1.89	1.61
BUKUSU	-1.89	-0.98	-2.37	-0.15	-0.91	-0.89	0.93	-0.08	-0.37	2.65	0.54
KIAMBU KIKUYU	0.24	0.51	0.56	-0.38	0.47	-1.04	-0.58	1.83	1.01	0.81	0.68
MURANGA KIKUYU	-1.29	0.93	2.65	1.57	-0.39	-0.84	0.48	0.92	0.56	1.28	-1.22
NYERI KIKUYU	-0.56	-0.03	-0.24	0.40	-2.00	-1.32	-0.75	-0.02	-0.28	-1.30	-0.65
NDIA	0.40	-0.83	0.03	0.11	-0.05	-0.40	0.20	-1.03	-0.56	-1.42	-0.64
KAMBA	0.79	0.11	-0.04	0.98	-0.47	-0.05	0.21	-1.88	1.14	-1.01	0.62
EMBU	0.44	-1.43	-1.11	1.09	0.29	-0.88	-0.09	0.05	-0.12	-0.76	0.85
MBERE	-1.68	1.17	-1.00	0.49	-0.61	-0.73	0.68	-0.63	0.37	-0.23	0.54
CHUKA	0.65	-0.80	-1.32	1.66	0.73	-0.71	-1.55	-0.15	-1.27	0.52	-0.48
MUTHAMBE	-0.34	-0.56	0.41	0.86	0.80	-0.56	0.11	-0.91	-0.44	-0.08	-1.53
MWIMBI	0.31	-1.53	1.09	-0.16	0.34	0.34	-0.78	0.14	-0.42	0.32	-0.46
IGOJI	0.07	-0.10	-1.33	0.95	0.24	-0.39	-0.32	1.11	1.06	-0.74	-0.39
IMENTI	-0.50	-0.17	-2.54	0.07	-0.05	-0.15	-0.09	0.66	-1.23	0.54	-1.21
TIGANIA	-0.79	-0.35	0.88	-0.20	-0.37	1.06	-1.11	-0.28	0.07	-0.09	0.55
IGEMBE	-0.80	-0.12	0.04	-0.08	0.90	0.29	-1.19	0.56	-1.09	-1.06	0.30
THARAKA	0.44	0.30	1.80	2.24	-1.19	-1.21	-0.30	0.05	1.00	-0.32	-0.66
POKOMO	0.14	-0.16	-0.58	0.05	-0.43	0.47	-0.46	1.76	0.79	-0.23	0.13
GIRIAMA	-0.49	-0.07	-0.88	1.81	-0.39	1.13	0.48	1.02	-0.72	1.29	0.09
CHONYI	-0.26	-0.26	-0.96	0.48	0.27	2.11	1.75	1.02	-0.53	-2.14	-0.84
MID MJI KENDA	-0.02	0.57	-1.60	1.69	-0.63	0.37	2.00	-0.68	0.54	-1.54	-0.88
DIGO	2.21	0.51	0.47	1.03	0.18	0.82	0.64	0.29	0.32	0.52	-0.98
TAITA	-0.14	-1.19	0.06	-0.26	0.30	2.28	0.58	-0.41	2.73	1.90	-0.66
TAVETA	1.00	-1.79	-0.06	0.25	-1.63	-1.11	0.80	1.32	-0.13	0.41	-0.10

TABLE AP 3.15 : UNROTATED COMPONENT SCORES (MALES) : BASED ON 80 DIGITAL TRAITS.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9
SOMALI	1.31	-0.54	0.30	0.92	-0.66	-0.08	0.27	-0.36	0.55
RENDILLE	1.12	0.12	0.11	-0.10	-1.55	-0.29	1.35	-0.99	0.16
GABBRA	0.60	-0.61	-1.81	-0.54	-1.18	-0.59	0.30	-2.28	0.67
BORAN	0.52	0.10	0.72	-0.03	0.06	-1.07	0.37	0.27	-0.12
BURJI	2.07	-0.35	0.98	1.78	1.70	0.00	-0.18	-0.91	0.00
SAMBURU	0.28	-0.86	0.28	1.50	-0.02	-0.01	0.53	-0.70	0.50
KADJIADO MAASAI	0.56	-1.20	0.46	0.77	0.24	-0.38	-1.82	-0.20	1.34
NAROK MAASAI	-0.39	-0.36	0.68	-2.02	-0.82	-0.14	-1.39	-1.44	0.43
NGWESI	1.17	0.03	-0.94	-0.55	-0.71	0.87	0.97	-1.22	0.20
MUKOGODO	2.15	-0.47	1.46	0.35	-0.42	0.15	2.29	1.20	1.91
KONY	-2.49	-1.63	2.67	-0.45	0.19	0.26	-1.15	1.05	0.85
NANDI	0.39	-1.32	-0.53	-0.64	1.30	-0.35	-0.36	-0.80	-1.03
KIPSIGIS	1.16	-0.77	0.99	-0.66	0.14	0.47	-0.82	-1.11	-0.08
TUGEN	-0.25	-0.59	-0.20	0.32	0.37	-0.14	-0.36	-0.02	-0.10
KEYO	-0.16	-1.59	-0.52	0.14	-0.09	0.74	0.30	0.99	-1.14
MARAKWET	0.57	-1.68	-0.35	0.14	-0.65	-0.47	0.13	-0.72	-0.91
POKOT	-0.82	-1.53	-0.74	-1.66	-0.36	0.18	-0.05	0.02	0.26
ITESO	-1.44	-0.75	-0.17	1.44	0.16	0.22	-0.50	0.71	-0.07
TURKANA	0.73	0.18	2.26	0.42	0.16	-0.22	-1.83	0.77	0.47
LUO	0.10	-0.28	-0.35	0.17	0.21	0.53	-0.15	-0.31	-0.41
GUSII	0.13	-0.13	-0.70	0.63	0.58	-0.21	-0.92	0.83	-0.15
TIRIKI	-0.35	1.51	0.17	-1.56	1.57	-1.59	-0.68	-0.14	0.49
MARAGOLI	-0.98	-0.40	0.46	-0.46	-1.63	0.70	-0.96	-0.57	-1.35
BUNYGRE	1.10	0.44	-1.68	-0.73	-1.28	-0.33	0.73	0.76	-0.76
IDAKHO	-0.73	-0.70	-2.17	-1.43	1.24	-0.13	0.15	0.01	0.05
MARAMA	2.48	-0.54	0.39	-1.57	-0.79	0.96	-0.40	2.12	-0.15
WANGA	-1.32	-0.33	-1.63	1.37	-0.34	0.28	2.17	2.66	-1.42
MARACH	0.68	-0.73	1.46	-2.13	0.29	-0.21	1.81	1.47	-1.88
BUKHAYO	-1.56	-1.02	0.67	0.65	-1.45	1.18	1.68	1.19	3.27
SAMIA	-0.73	2.36	-0.21	-1.04	0.01	-3.70	1.18	1.33	0.40
BUTSOTSO	0.59	-1.28	-2.05	-0.38	-0.29	-0.39	-2.58	1.83	-0.76
BUNYALA	-0.34	1.23	1.54	2.22	-3.45	-2.23	0.04	-1.03	-2.51
KABRAS	0.35	2.05	-1.23	-0.09	-2.25	1.03	-2.17	0.40	1.17
BUKUSU	-1.07	-0.32	0.35	-0.59	0.61	0.42	-0.37	-0.12	-0.59
KIAMBU KIKUYU	0.51	-0.83	-0.21	-0.70	-0.11	-0.43	1.17	0.13	0.36
MURANGA KIKUYU	0.46	0.62	0.34	1.69	1.11	1.10	-0.06	1.27	-0.31
NYERI KIKUYU	-0.48	0.61	1.43	-1.07	0.66	1.69	-0.09	-0.29	-1.96
NDIA	-0.97	0.30	0.04	0.21	0.21	0.46	0.50	-0.42	-1.01
KAMBA	0.03	0.30	0.05	1.19	1.60	-0.53	0.74	-0.26	-0.20
EMBU	-1.23	0.99	-0.95	0.08	0.89	0.66	0.17	-0.77	0.90
MBERE	0.63	0.59	0.11	-0.51	0.90	-0.36	0.49	-0.55	1.32
CHUKA	-0.18	0.80	-0.86	0.67	0.57	1.04	-0.11	-0.52	-1.32
MUTHAMBE	-0.18	0.63	-0.40	1.37	0.55	-0.02	-0.14	-0.38	-0.47
MWIMBI	-1.38	-0.23	-0.20	0.37	0.37	0.52	1.44	-1.26	0.17
IGBUI	-0.16	0.48	-0.09	0.39	0.14	0.48	0.57	-0.98	-0.20
IMENTI	-0.17	0.30	0.37	1.12	0.57	0.34	-0.44	-0.16	0.47
TIGANIA	-0.93	-0.06	-0.07	0.18	-0.77	-0.34	-0.34	0.79	-0.03
IGEMBE	-0.05	-0.62	-0.71	1.32	0.32	-0.20	-0.55	-0.75	-0.95
THARAKA	0.22	1.35	1.08	-0.06	0.16	-0.44	-1.02	0.28	-0.39
POKOMO	-0.25	0.32	0.42	-0.15	0.34	0.29	-0.01	0.49	-0.12
MALAKOTE	0.16	-0.39	-0.90	0.46	1.85	-3.14	-0.71	0.54	0.88
GIRIAMA	-0.27	3.09	-0.85	0.10	0.09	2.60	-0.61	1.20	0.45
CHONYI	-0.25	0.62	-0.30	0.59	-0.42	-0.50	-0.67	0.60	1.29
MID MUI WENDA	0.65	1.36	0.61	-0.87	1.82	1.20	1.40	-1.27	-0.17
DIGO	1.06	1.13	-0.26	-0.65	-0.29	0.50	-0.26	-0.10	0.43
TAITA	-1.56	-0.33	-0.78	-0.09	-0.91	0.03	0.16	-1.51	1.80
TAVETA	-1.32	0.91	1.44	-1.63	-0.55	-0.41	0.38	-0.46	-0.29

TABLE AP. 3. 15 (CONTINUED)

POPULATION	COM10	COM11	COM12	COM13	COM14	COM15	COM16	COM17	COM18
SOMALI	-0.19	-0.01	0.00	-0.93	0.89	0.61	0.50	-0.81	0.15
RENDILLE	-0.49	-0.06	0.08	0.51	0.56	-0.63	0.00	-0.82	0.56
GABBARA	-1.03	0.53	0.39	0.59	0.30	-1.44	-0.04	-1.09	-0.39
BORAN	0.31	-0.01	0.75	0.48	0.85	0.29	0.86	0.53	-0.55
BURJI	0.42	0.18	0.92	-0.41	-0.57	-0.10	0.91	-1.40	-1.03
SAMBURU	0.06	0.08	-1.58	1.12	1.30	0.15	0.35	-0.48	-0.38
KADJIADO MAASAI	0.39	0.05	1.00	0.46	0.51	-1.05	0.44	0.87	-0.15
NAROK MAASAI	-1.29	0.50	0.62	1.28	-0.25	0.45	0.01	2.53	-0.03
NGWESI	0.73	-0.21	0.21	-0.14	-1.71	0.18	-0.75	-0.58	0.69
MUKOGODO	-0.55	0.02	0.74	-2.07	0.77	0.95	-1.27	-0.58	0.41
KONY	0.91	-0.16	-0.70	-1.18	0.07	-0.91	-2.24	-2.29	-0.10
NANDI	-0.60	-0.27	-1.33	1.17	1.33	0.46	0.24	-0.15	0.08
KIPSIGIS	1.44	0.66	2.22	1.00	0.40	-0.11	-1.95	1.21	1.23
TUGEN	0.25	0.32	-0.99	-0.57	0.06	-0.89	0.13	0.65	1.79
KEYO	-1.56	-0.30	-0.90	0.98	0.53	1.10	-0.98	0.35	-0.31
MARAKWET	0.84	0.08	-0.88	-1.38	0.88	-1.36	-0.57	-0.92	-1.83
POKOT	-1.37	1.64	-1.68	0.76	0.06	1.13	1.37	-0.38	-0.02
ITESO	0.41	0.72	1.21	-2.40	1.70	-1.24	1.84	1.18	1.26
TURKANA	-3.07	-0.96	-0.37	0.06	0.18	0.67	0.35	0.29	1.53
LUD	0.56	0.42	-0.04	0.31	0.75	-0.46	1.22	-0.13	-0.33
GUSII	0.90	-0.23	-0.98	1.70	-1.57	-0.44	0.17	0.33	1.00
TIRIKI	0.11	-0.20	-0.65	-1.46	-0.87	-1.00	-0.91	0.56	-1.72
MARAGOLI	1.22	-0.24	1.08	0.50	-0.54	-0.32	-0.57	-0.51	-0.18
BUNYORE	-0.02	-0.45	-0.85	0.00	-0.43	-1.47	-1.25	-0.85	2.70
IDAKHO	1.97	0.25	0.00	-1.23	0.78	1.40	-0.22	0.48	0.59
MARAMA	-0.25	-0.47	-1.40	-0.28	-0.02	-1.39	1.31	1.27	-1.98
WANGA	-1.84	0.02	2.57	0.23	-0.72	-0.23	-1.14	-0.07	-1.21
MARACH	0.95	2.54	0.73	-0.56	-0.83	-0.68	0.73	1.74	1.18
BUKHAYO	1.41	-0.40	-2.14	1.06	-2.07	0.41	0.17	0.95	0.55
SAMIA	0.41	-0.84	-0.38	1.48	2.06	-1.33	0.29	-0.67	0.12
BUTSOTSO	1.58	-3.03	0.36	-0.80	0.27	2.23	0.25	-0.57	0.19
BUNYALA	1.08	0.14	-1.50	-0.80	0.07	1.87	-0.44	1.68	-0.34
KABRAS	-0.13	2.85	0.27	-0.84	-0.13	0.51	-1.13	-0.56	-0.71
BUKUSU	-1.03	0.42	0.05	0.24	0.66	0.14	-1.51	-0.60	-1.79
KIAMBU KIKUYU	0.15	-0.25	1.02	0.59	0.08	1.49	0.32	-0.70	-2.03
MURANGA KIKUYU	0.39	0.75	1.40	2.04	0.01	0.90	0.73	-0.59	0.26
NYERI KIKUYU	-0.32	0.12	-0.39	-0.55	0.00	-0.27	0.62	-0.05	-0.16
NDIA	1.27	-0.60	1.08	1.72	-0.40	-0.19	-0.46	0.33	-0.67
KAMBA	1.40	0.06	-1.18	-0.76	-1.22	0.50	0.27	1.05	-2.10
EMBU	0.96	1.14	-0.23	0.18	0.41	1.04	-0.49	-0.13	0.34
MBERE	0.31	-2.01	0.35	-0.51	-0.55	-1.05	0.56	0.33	0.62
CHUKA	-1.53	-0.63	-0.69	-1.01	-2.84	-1.34	0.94	0.50	-0.18
MUTHAMBE	-0.20	1.57	-0.87	-0.55	-0.14	-0.75	-0.80	-1.17	-0.01
MWIMBI	-0.78	0.05	-0.33	-0.37	1.14	0.98	1.15	0.71	0.98
IGOU	-0.02	-0.79	0.43	0.57	0.46	0.46	1.68	-0.05	0.73
IMENTI	-0.29	-0.08	-0.93	1.26	-0.07	-1.77	-0.56	-0.40	-0.32
TIGANIA	-1.30	-0.84	-0.22	0.29	0.08	0.29	0.09	0.49	-0.42
IGEMBE	-0.88	-1.34	0.19	-0.90	-0.38	-1.18	-1.09	-0.01	1.83
THARAKA	0.64	0.06	0.40	1.23	-1.53	1.45	0.20	-1.75	0.79
POKOMO	0.76	1.09	0.07	1.43	0.41	-1.27	0.63	-0.71	0.08
MALAKOTE	-1.35	2.50	0.08	-0.53	-1.50	1.49	-0.47	0.25	0.78
GIRIAMA	0.19	0.26	-0.62	-0.61	2.57	0.10	0.28	0.39	0.06
CHONYI	-0.44	-0.97	1.36	0.68	0.14	-1.10	-0.69	2.03	-1.04
MID MJI KENDA	-0.75	-1.59	-0.72	-0.13	0.76	1.45	-2.90	1.15	0.22
DIGO	0.06	-0.46	-0.27	-0.70	-1.43	0.84	1.51	-0.77	-0.60
TAITA	-0.56	-0.54	1.62	-0.91	-0.75	-0.01	0.62	0.89	-0.73
TAVETA	-0.74	-0.97	1.39	-1.03	-0.68	0.45	1.80	-2.46	0.33

TABLE AP 3 16 . UNROTATED COMPONENT SCORES (FEMALES) BASED ON 80 DIGITAL TRAITS.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9
SOMALI	1.20	-0.77	-1.00	1.76	-0.34	-0.13	-1.07	0.20	-0.06
RENDILLE	1.76	-0.70	-0.87	0.55	-0.91	-0.41	1.79	-0.27	-0.19
GABBRA	1.92	-1.53	-0.65	0.07	-0.37	0.14	-0.84	-0.39	0.29
BORAN	-0.37	0.41	0.33	-0.46	-0.68	1.12	-0.29	0.44	-0.23
BURJI	0.63	0.31	0.21	0.94	0.82	-1.18	-0.24	-1.12	0.37
SAMBURU	0.96	-1.03	-0.05	0.14	0.35	0.35	0.42	0.40	1.46
KADJIADO MAASAI	0.38	0.14	1.26	0.58	-0.25	-0.39	-0.80	0.09	-1.25
KONY	-2.15	-2.56	-0.20	-0.79	-0.28	-1.22	0.88	1.34	1.02
NANDI	0.16	-0.33	1.22	-0.39	0.30	-1.00	0.50	0.09	-0.75
KIPSIGIS	-0.07	-0.31	0.53	0.83	-0.38	-0.08	1.02	1.41	-1.04
TUGEN	-0.36	-1.38	-1.06	0.30	-0.11	0.82	0.66	-0.83	0.43
KEYO	-0.80	-1.19	-0.17	-0.73	0.88	-0.47	0.83	-0.70	-0.31
MARAKWET	-0.45	-1.70	0.83	0.66	0.83	-1.01	-1.65	0.40	1.92
POKOT	0.27	-1.34	1.58	0.08	0.28	-0.43	0.42	0.36	-0.58
ITESO	0.36	-0.30	-0.04	-0.59	-1.55	0.17	1.18	1.76	-0.75
TURKANA	0.52	-0.81	0.84	0.15	-1.05	0.87	0.47	1.04	0.81
LUD	0.91	-0.76	0.83	-0.22	-1.00	-0.01	-0.54	0.41	-0.15
GUSII	0.62	0.67	0.09	0.24	0.44	-0.07	0.08	-0.27	0.37
TIRIKI	0.65	0.43	-0.31	-1.53	-0.40	2.81	-0.71	0.00	-0.60
MARAGOLI	-0.27	-0.11	-1.80	-0.80	-1.80	-0.52	0.80	0.36	1.62
BUNYORE	-1.20	1.50	-2.76	2.01	-1.14	0.88	-1.35	-0.22	-0.19
IDAKHO	-0.88	-0.41	-1.17	0.09	-0.37	-0.32	1.91	-0.79	-0.38
MARAMA	1.36	0.05	0.17	-0.43	0.57	-0.57	-2.64	0.21	2.10
WANGA	-1.26	1.85	-0.04	-0.40	0.23	-1.29	-0.36	0.09	1.31
MARACH	-0.34	-0.50	-0.80	-2.01	0.09	0.29	-0.38	0.10	-2.27
BUKHAYO	-0.70	-1.23	-0.47	-0.45	-0.11	0.60	-1.05	-0.72	1.09
SAMIA	1.70	-0.82	1.33	-0.43	1.00	2.44	-1.07	-0.13	-1.23
BUTSOTSO	-0.88	-0.41	0.24	-2.16	0.73	-0.96	0.48	0.58	0.79
BUNYALA	-0.45	0.82	1.30	2.34	-2.09	1.59	-0.15	0.36	2.63
KABRAS	-1.90	2.16	0.79	-0.53	-0.17	2.01	0.20	1.97	-0.10
BUKUSU	-1.55	-0.90	0.11	0.71	-1.95	-0.16	-1.79	-0.05	-2.18
KIambu KIKUYU	0.25	-0.15	1.96	0.41	0.01	-0.13	-0.87	-0.07	-1.33
MURANGA KIKUYU	-0.36	0.75	1.28	2.68	1.00	-0.65	0.88	0.53	-0.66
NYERI KIKUYU	-0.59	-0.03	0.35	-0.83	0.34	0.61	0.68	-0.78	-0.03
NDIA	0.30	-0.48	-0.72	-0.12	0.01	-0.25	-0.35	-0.45	0.20
KAMBA	0.83	0.10	-0.94	-0.68	0.23	2.34	1.41	-0.69	0.63
EMBU	0.03	0.48	-1.33	0.09	0.63	-0.44	0.40	-0.41	-0.63
MBERE	-1.38	-0.20	-0.58	0.50	0.15	0.47	-0.01	-0.54	-0.76
CHUKA	0.83	0.92	-1.01	0.25	1.61	-0.36	-1.11	-1.01	-0.56
MUTHAMBE	0.15	-0.39	-0.99	-0.13	0.56	-1.11	-0.95	-0.80	-0.37
MWIMBI	-0.05	0.45	-0.60	-0.08	-0.06	-0.08	-0.93	0.01	-1.25
IGOJI	0.05	0.78	0.60	0.29	0.96	-0.56	0.18	-0.27	0.27
IMENTI	-0.54	0.30	-0.10	-0.21	0.25	-1.05	0.42	-0.82	-1.00
TIGANIA	-0.86	-0.42	-0.14	0.64	0.45	0.48	1.18	-0.35	-0.25
IGEMBE	-1.02	-0.45	0.96	1.04	2.73	1.17	0.77	-0.34	0.06
THARAKA	0.56	1.51	-0.85	1.13	1.01	-0.17	1.47	-1.38	0.12
POKOMO	-0.14	0.88	0.60	-0.31	-0.23	-0.81	0.05	0.88	0.79
GIRIAMA	-0.59	1.75	-0.34	-1.60	-0.23	-1.61	-1.71	1.58	-0.47
CHONYI	-0.39	1.44	2.61	-1.98	-1.98	-0.23	0.34	-4.39	0.93
MID MUI KENDA	0.27	1.12	-0.63	-1.21	2.89	1.03	0.06	1.78	1.15
DISO	3.22	1.64	-0.20	-0.59	-1.08	-1.50	1.61	1.36	-0.34
TAITA	-0.34	0.06	-1.10	0.08	-0.52	-0.16	-0.86	-0.52	0.05
TAVETA	0.50	0.65	0.87	1.11	-0.29	-0.85	0.61	0.58	-0.52

TABLE AP. 3. 15 (CONTINUED)

POPULATION	COM10	COM11	COM12	COM13	COM14	COM15	COM16	COM17	COM18
SOMALI	0.63	-1.81	-1.62	-0.75	1.74	0.57	1.53	-0.17	0.63
RENDILLE	-0.17	-1.19	0.42	-1.00	-1.74	2.29	-1.65	0.69	-0.30
GABBRA	-0.37	-0.77	-0.59	0.33	-0.37	0.88	0.18	-0.89	0.36
BORAN	-0.36	1.02	-0.06	-1.94	-0.67	-0.12	1.17	-0.43	-0.79
BURJI	0.76	-0.44	1.13	0.67	0.00	0.32	1.00	0.22	-1.28
SAMBURU	0.96	0.33	-0.66	0.06	0.03	1.17	-1.39	-0.55	-1.47
KADJIADO MAASAI	0.24	0.35	0.01	-0.77	-0.69	0.37	-0.31	-0.44	-0.92
KONY	0.06	-1.28	0.20	0.68	1.84	0.33	1.87	-0.39	-2.51
NANDI	-0.10	0.46	0.75	-1.86	0.06	0.97	-0.89	1.23	-0.44
KIPSIGIS	0.18	-0.29	-0.48	-1.21	-0.05	-1.32	-0.35	-0.60	1.18
TUGEN	-0.91	-0.42	0.20	0.61	0.68	-0.68	-0.55	0.92	0.40
KEYO	0.15	-0.50	-0.28	-1.00	1.34	0.91	-0.85	0.40	0.29
MARAKWET	0.12	-0.90	0.77	0.40	-1.37	-0.31	-0.93	0.10	-0.41
POKOT	0.22	0.92	-1.42	0.83	-0.49	-0.28	-1.03	0.63	0.37
ITESO	-1.48	-0.08	0.28	-0.06	-0.88	-1.50	1.17	-0.70	-1.14
TURKANA	1.61	0.15	0.73	0.93	-0.29	-0.79	-0.11	-0.25	0.36
LVD	-0.15	-0.28	-0.90	-0.20	1.23	-1.02	1.08	0.39	0.74
GUSII	-0.59	0.79	0.03	0.73	-2.16	-0.52	0.98	1.30	-0.25
TIRIKI	-1.24	-0.99	-0.68	0.65	0.71	0.95	0.42	-1.69	0.09
MARAGOLI	0.02	0.04	-0.57	0.69	-0.19	-0.79	-1.21	1.35	1.05
BUNYORE	2.39	0.04	-0.51	-0.57	0.34	-1.89	-0.36	-0.32	-1.03
IDAKHO	1.45	0.02	2.19	-0.24	-0.31	-1.17	1.81	-0.29	0.29
MARAMA	0.01	-0.32	0.17	-2.95	-0.76	-1.11	0.07	-0.47	1.32
WANGA	-1.77	0.21	-0.97	-1.50	1.22	-1.50	-0.70	0.56	-2.41
MARACH	-1.11	-0.42	1.22	-0.67	0.68	-0.26	-0.49	2.43	1.16
BUKHAYO	-0.29	0.69	-0.45	0.59	-1.37	-0.66	0.99	-1.05	1.56
SAMIA	1.93	1.19	0.13	0.50	0.20	-1.44	0.37	2.76	-2.01
BUTSOTSO	2.97	2.61	-1.36	0.17	0.18	1.55	0.17	-0.56	1.60
BUNYALA	-1.82	2.70	1.38	0.20	1.45	1.97	0.29	1.11	0.39
KABRAS	1.20	-2.65	-0.23	-0.06	-2.36	1.91	-0.10	0.08	-0.22
BUKUSU	0.39	0.13	-0.13	0.65	0.78	0.25	-3.11	-1.02	-0.55
KIAMBU KIKUYU	-0.20	-0.57	1.21	0.55	0.43	0.87	1.96	-1.64	-0.41
MURANGA KIKUYU	-0.32	-1.06	-3.00	1.38	0.62	-0.10	0.99	2.02	1.33
NYERI KIKUYU	-1.96	1.32	-2.06	-0.46	0.01	0.48	0.33	-0.54	-0.59
NDIA	-0.24	-0.12	0.15	0.21	-0.90	0.04	0.54	0.99	0.00
KAMBA	0.60	-0.11	-0.35	-0.98	0.96	-0.22	-0.11	0.32	0.36
EMBU	-0.42	0.43	0.36	-0.45	0.27	1.49	1.40	-0.99	0.92
MBERE	0.01	1.25	-0.61	-0.10	-0.94	0.36	0.41	-0.19	0.54
CHUKA	-0.35	0.14	-0.72	0.61	-0.28	0.70	0.05	0.00	-0.82
MUTHAMBE	-1.22	0.02	-0.53	0.04	-0.29	0.37	-0.30	-0.42	-0.71
MWIMBI	0.06	1.38	1.42	-0.13	1.66	0.88	-0.56	-0.42	0.82
IGOJI	0.08	-0.68	0.61	0.31	-0.09	-0.55	0.04	-0.46	1.81
IMENTI	0.06	1.98	-0.06	0.68	-1.32	-0.94	0.82	-0.99	-1.02
TIGANIA	-1.26	-0.22	-0.84	-1.13	-2.03	-0.64	-0.52	-0.27	0.21
IGEMBE	-0.78	-0.82	2.30	-0.74	0.99	-1.30	-0.94	-0.51	1.22
THARAKA	1.22	0.17	0.27	-0.22	0.61	1.14	-0.07	0.08	-0.76
POKOMO	0.77	-0.47	1.27	-1.20	0.10	0.60	0.24	0.26	-0.25
GIRIAMA	0.14	-0.35	0.19	0.42	0.23	0.59	0.54	1.72	1.02
CHONYI	0.59	-1.83	-0.49	0.68	0.56	-0.77	-0.45	-0.34	0.09
MID MUI KENDA	-0.46	-0.11	0.04	2.17	0.95	-0.66	-1.41	-1.27	-0.76
DIGO	-0.39	0.13	0.13	0.91	0.86	-1.00	-0.21	-0.52	0.14
TAITA	-1.10	-0.37	1.74	2.87	-1.07	0.44	-0.14	0.97	0.39
TAVETA	0.02	0.59	0.34	0.65	-0.07	-0.36	-1.66	-2.13	0.80

Table Ap.3.17: Rotated component scores (males): based on 80 digital traits.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10	COMP11	COMP12	COMP13	COMP14	COMP15	COMP16	COMP17	CONTIN
SOMALI	1.08	0.66	0.47	0.71	0.84	-0.35	-0.04	0.86	-0.65	0.37	0.54	-0.60	0.27	0.37	-0.07	0.70	0.29	0.32
RENDILLE	-0.32	0.64	0.75	0.34	1.26	-1.33	0.35	0.60	-0.91	-0.34	0.13	1.12	0.76	0.40	-0.35	0.75	0.40	0.17
GADURA	-1.27	-0.24	0.21	1.30	1.55	-1.44	1.32	1.05	-0.01	-0.97	0.67	0.60	0.44	-1.00	-0.02	1.03	0.27	-0.01
BIRAN	0.44	0.09	0.75	-1.07	0.35	-0.06	0.60	0.60	0.60	0.81	0.55	0.54	-0.52	0.44	-0.47	0.33	-0.51	0.31
BURJI	2.82	1.32	0.38	0.45	1.20	0.42	0.37	0.13	0.82	0.03	-0.22	-0.62	-0.69	0.15	-0.41	1.00	0.79	-1.59
SAMBURU	0.82	0.09	-0.41	0.67	0.62	-0.36	-1.10	0.07	-0.26	-0.36	0.86	1.06	-1.23	-0.33	-0.38	1.31	0.46	0.44
KADJIADU MAASAI	1.60	-0.30	0.08	-0.51	-0.30	-1.60	0.11	0.93	0.63	0.07	-0.67	0.39	-0.57	-1.30	-0.39	0.24	-0.90	-0.62
NAROK MAASAI	-0.55	-0.99	-0.57	1.15	-0.30	-1.51	0.60	1.91	1.06	-0.39	-0.18	0.95	1.32	0.12	1.55	-1.41	-0.78	0.73
NGWESI	-0.20	0.22	0.04	1.30	0.90	-0.33	-0.52	0.28	-0.54	-0.71	-0.25	0.12	0.90	0.54	0.99	0.14	0.77	-0.05
NUMOGHIN	1.88	0.56	0.86	-0.55	1.61	1.06	-0.03	0.67	-1.25	1.74	0.03	-0.30	1.62	0.53	0.99	0.14	0.08	0.08
KINY	0.99	-1.37	-0.26	-1.03	-2.74	-0.09	-0.34	0.03	-3.30	-0.95	-0.30	-1.06	-0.22	0.80	0.44	1.04	-0.01	-0.96
NANDI	0.47	-1.45	0.13	0.50	0.29	0.32	0.36	0.74	1.14	-0.82	0.13	0.53	-0.99	0.01	0.26	1.29	0.40	1.00
KIPSIGIS	1.47	-0.74	0.36	0.05	-0.45	-1.05	1.04	0.49	-0.24	2.01	-0.59	0.96	-0.12	0.42	2.09	1.09	1.09	-0.25
TUGEN	-0.03	-0.72	-0.15	0.06	-0.38	-0.74	-1.02	-0.77	0.16	0.40	0.13	-0.60	0.47	-0.92	0.07	0.72	0.74	0.05
KEYO	0.42	-1.31	-0.39	1.01	0.65	0.84	0.20	-0.49	-0.42	-0.74	0.05	0.82	-0.26	0.20	0.42	0.43	1.41	1.95
PARAKUEI	0.79	-1.17	-0.11	1.24	-0.32	-0.15	1.48	0.40	-0.92	-1.07	1.79	-0.06	-0.05	-1.08	-1.03	1.02	0.36	-1.05
POKOT	-1.15	-1.99	-0.35	1.10	0.12	0.83	-1.15	1.35	1.04	-0.74	-0.37	0.31	1.05	1.14	-0.26	1.37	1.20	0.59
ITEO	-0.13	-0.54	-0.88	-0.01	-0.83	-1.49	0.14	-1.18	0.40	2.62	0.01	-2.05	-0.08	-1.01	-2.46	0.42	-0.47	0.30
TURKANA	1.68	1.20	-0.66	-1.71	0.12	-0.47	-0.20	0.17	0.29	-0.40	-1.03	-1.02	1.44	0.61	0.85	0.65	-1.63	2.66
LUO	0.13	-0.10	-0.09	0.86	-0.32	-0.51	0.11	0.33	1.11	0.17	0.07	0.41	-0.61	-0.80	-0.99	0.51	0.37	-0.32
GUSII	0.14	-0.20	0.84	0.08	-0.13	-0.37	-1.86	-1.48	0.86	-0.81	-0.50	0.31	-0.69	-0.61	1.26	0.07	0.05	-0.19
TIRIKI	-0.66	0.18	-0.28	2.10	-1.12	1.75	1.03	0.53	0.32	-0.68	0.59	-0.71	0.56	-1.68	0.35	0.10	1.05	-1.12
MARACULI	-0.26	-0.41	-0.40	0.75	-1.30	-1.70	1.00	-0.46	-0.21	-0.72	0.21	0.24	-0.30	1.32	0.52	-1.09	0.02	-1.04
BUNYURE	-1.34	-0.20	2.28	0.87	0.17	-0.97	-0.17	-1.74	-1.59	-0.95	-0.67	0.12	1.50	-0.52	0.71	0.73	1.21	0.98
IDAKHO	1.20	-2.04	1.22	-0.16	-1.50	1.19	-0.24	0.57	0.15	1.40	0.38	-1.42	-1.06	-0.06	-0.09	-0.56	1.51	0.24
MARANA	1.85	-0.46	1.92	0.66	0.51	2.24	1.25	1.74	-3.05	-1.22	0.20	1.45	2.21	-1.38	-1.61	-0.39	1.31	-0.06
MANGA	-1.17	-0.62	0.66	0.51	2.24	1.25	1.74	-3.05	-1.47	0.37	-1.28	0.44	-0.60	-0.17	-0.56	-1.40	-2.30	-0.67
MARACH	0.27	-2.25	0.62	-0.92	-0.23	-0.31	0.16	-2.32	1.05	2.25	0.57	1.35	2.70	1.18	-0.41	0.13	1.16	-0.81
BUKIAVO	-0.29	-0.00	-0.14	-0.73	-0.17	-0.36	-5.03	0.32	-1.64	-0.58	0.24	1.02	0.23	-0.25	-0.54	-1.73	0.94	-0.91
SAHIA	-2.57	0.70	2.28	-3.09	-0.22	0.11	0.74	-0.36	-0.78	-0.11	0.29	1.16	-1.51	0.38	-0.25	2.61	0.70	0.13
DUTSITSU	0.82	-0.78	3.19	0.99	-1.36	0.32	0.54	-0.19	0.06	-1.19	0.12	-3.23	-1.90	0.68	0.31	1.42	-1.05	0.94
BUNYALA	-0.61	1.64	0.27	-0.10	0.16	-1.52	0.14	-1.02	-0.03	0.10	5.77	-0.04	0.12	1.11	1.00	0.51	1.12	0.50
KARRAS	-1.15	2.09	0.30	2.58	-1.68	0.51	0.39	1.17	-0.57	1.33	0.15	-0.25	1.97	0.41	1.66	0.01	1.54	1.95
BUKUSU	-0.09	-0.71	-1.74	0.20	-0.55	1.28	1.58	0.58	-0.59	-0.52	-0.20	0.69	-0.48	0.14	0.99	0.12	0.53	0.09
KIAMBU KIKUYU	0.30	-0.47	0.85	-0.01	1.23	1.28	0.73	1.23	-0.09	-0.24	0.12	0.65	-0.84	1.20	-0.53	-0.53	-0.00	-1.17
MURANGA KIKUYU	1.12	1.20	0.04	0.69	0.34	0.40	-0.67	-1.32	0.77	1.29	-1.56	0.93	-1.63	1.24	0.31	0.12	0.05	0.30
NYERI KIKUYU	0.33	0.12	-1.43	0.02	-1.39	0.58	0.77	-0.81	1.03	-0.50	-0.02	0.59	0.08	1.19	-0.09	-0.21	1.09	0.72
NOTA	-0.28	-0.09	-0.29	-0.12	-0.11	-0.49	0.45	-0.81	0.34	-0.27	-0.12	1.41	-1.80	0.51	0.37	-1.27	0.31	-0.62
KAHBA	0.74	0.21	-0.40	-0.40	0.32	1.96	-0.87	-0.40	1.00	-0.15	2.07	-0.11	-1.02	-1.13	-0.20	-0.50	0.67	1.35
THRU	-1.40	0.29	-0.68	0.81	-0.46	0.80	-1.08	0.84	-0.07	1.30	-0.20	0.01	-1.10	0.10	0.54	-0.00	0.92	-0.07
NIERE	0.33	0.59	1.10	-1.73	0.19	-0.46	-0.47	0.42	-0.01	-0.50	-0.72	-0.64	-0.20	-0.90	0.79	-0.64	1.74	0.33
CHUKA	-0.38	0.93	-1.42	0.44	0.76	-0.41	-0.16	-1.83	1.66	-2.04	-0.48	-0.85	1.45	-1.33	-0.35	-1.04	0.65	-0.10
MUTHAMBE	-0.30	0.81	-1.32	1.29	0.06	0.47	-0.09	-0.74	0.45	0.08	0.30	-0.17	0.05	-0.75	0.60	1.61	0.48	-0.46
MUMBU	-1.06	-0.33	-1.29	0.02	1.06	-0.74	-0.76	0.64	0.35	1.03	0.47	-0.48	-0.22	0.41	-1.68	0.18	0.60	1.62
IGUJI	-0.51	0.79	0.09	-0.01	0.70	-0.78	-0.30	0.20	1.07	0.06	-0.36	0.04	-0.81	0.04	-1.20	0.32	0.51	0.70
IRENTI	0.49	0.71	-1.01	-0.11	-0.37	-0.46	-0.53	-0.30	-0.27	-0.96	-0.70	1.09	-0.65	-1.41	0.42	0.93	-0.06	0.15
ITIGANIA	-0.51	-0.05	-0.21	-0.63	0.11	0.00	-0.15	-0.12	-0.12	-0.72	0.05	-0.17	-0.02	-0.16	0.06	0.48	-1.72	0.03
IGEMIE	0.27	0.00	-0.61	0.35	0.88	-1.57	0.58	-1.32	-0.63	-0.75	-0.39	1.63	-0.08	-1.20	0.60	0.06	1.00	1.27
THARAKA	0.17	1.43	0.52	-0.30	-0.35	0.07	-0.77	-0.58	0.48	-0.56	-0.63	-0.44	-0.36	2.52	1.81	0.49	0.17	-0.66
PIKIMO	-0.11	0.00	-0.04	0.04	-0.72	-0.40	-0.29	-0.59	0.41	0.31	-0.91	1.44	-0.45	0.23	-0.24	1.31	0.05	-0.05
MALAKOTE	-0.50	-0.86	-0.13	-0.70	2.02	1.63	-0.74	-0.06	0.92	1.58	0.02	-2.11	0.67	-0.53	2.86	1.82	-0.80	0.56
GERTAMA	-1.11	2.44	0.21	1.15	-2.65	1.27	-0.05	0.77	-0.26	1.59	-0.75	0.61	-0.30	-0.73	-1.42	0.31	-0.16	1.03
CHINYI	-0.14	0.60	0.22	-1.48	-0.09	-0.67	0.77	0.19	-0.15	0.51	-0.56	0.44	-0.58	-2.09	0.45	-1.54	-1.49	-0.36
MID NJI KENDA	0.43	0.70	-0.63	-0.75	0.51	1.70	0.57	0.71	-1.23	0.04	0.26	1.14	-0.32	-0.14	-1.31	1.75	2.53	2.75
DIGO	0.02	1.39	0.96	0.31	-0.05	1.01	-0.55	0.61	1.03	-1.04	-0.16	-0.60	0.98	0.73	-0.59	0.54	0.17	-0.00
LATIA	-1.35	-0.14	-0.97	-0.58	0.74	-0.97	0.13	1.70	0.13	0.14	-0.42	-1.19	0.08	-0.62	-0.87	1.96	0.47	1.14
LAULIA	-1.44	0.62	0.73	-1.56	-0.11	-0.23	0.80	0.28	-0.02	-1.20	-0.96	-1.51	0.60	3.15	-1.54	0.34	0.34	-0.01

Table Ap.3.18: Rotated component scores (females): based on 80 digital traits.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COM10	COM11	COM12	COM13	COM14	COM15	COM16	COM17	COM18
SOMALI	0.87	-0.22	0.67	-0.62	0.55	1.90	-0.50	-0.31	-0.96	-0.01	0.70	-0.69	-0.59	1.07	0.17	-1.10	3.02	-0.65
RENDILLE	1.31	0.02	1.40	2.27	1.24	-0.40	-0.13	-1.27	-0.16	0.52	0.22	-1.30	-0.45	1.91	-0.35	2.01	-0.92	-0.83
GABBRA	0.07	0.43	0.47	0.73	1.32	1.86	-0.42	-0.12	-0.71	-0.44	1.17	0.11	0.28	0.67	-0.01	-0.19	0.09	-1.18
BORAN	-0.86	-0.07	1.02	-0.95	0.17	-0.52	0.06	1.30	0.25	-0.97	-0.74	-1.00	-0.24	0.56	-1.24	-0.66	-0.63	0.15
BURJI	1.19	0.03	-0.35	0.64	-0.27	1.27	0.66	-0.77	-0.41	-0.99	-0.57	-0.08	-1.15	-0.13	0.78	0.10	-0.19	1.51
SAMURU	-0.51	0.48	0.69	0.93	0.39	0.38	-0.70	-1.07	0.20	0.46	0.11	-0.16	0.09	2.03	1.42	-0.54	-1.00	0.35
KADJITADO MAASAI	-0.25	0.00	-0.19	-0.18	-0.10	0.99	1.00	0.96	-0.30	0.34	-0.89	-0.83	-0.07	1.12	-0.32	0.72	-0.57	0.31
KONY	-2.08	0.00	-1.43	1.07	-1.86	-0.71	-1.26	-1.45	-0.54	-1.42	0.68	0.63	-2.84	1.70	0.06	-1.49	0.99	0.34
NANDI	-0.34	-0.66	0.54	1.10	-1.52	-0.18	0.30	0.45	0.40	0.45	-0.42	-1.97	-0.11	0.38	0.10	1.36	-0.45	0.12
KIPSIGIS	-0.41	0.14	0.15	0.09	0.16	-0.77	0.84	0.76	-0.47	2.23	-0.38	-0.65	-0.25	-0.06	-0.90	-0.77	0.77	-0.68
TUSEN	-0.45	-0.09	-0.36	0.19	1.02	-0.45	-0.95	-1.00	0.85	0.41	1.58	-0.03	-0.64	-1.03	0.22	0.20	0.42	-0.08
KEYO	-0.79	-1.28	-0.13	0.60	-0.79	-0.80	-0.24	-0.68	-0.46	0.14	1.10	-1.32	0.08	0.07	1.23	0.45	0.51	-0.47
MARAKWET	-1.08	0.09	-0.80	0.75	-0.33	2.22	1.03	-1.96	-0.06	0.76	-1.45	0.11	-0.46	-0.45	-0.03	-0.18	-1.19	-0.41
IMOTI	-1.49	0.80	-0.86	1.24	0.00	0.34	0.52	0.05	0.31	1.26	-0.03	-0.16	1.61	0.22	-0.03	0.63	0.55	0.50
TUKANA	-0.60	1.50	-0.13	0.80	0.52	-1.26	-0.52	1.79	-0.10	0.02	-0.25	0.66	-1.76	0.53	1.96	-0.48	-0.18	-0.28
LUO	-0.81	1.31	1.14	0.15	-0.22	0.31	0.81	-0.89	0.22	1.29	0.36	1.28	-0.20	0.04	-0.61	-0.83	-0.41	0.59
GUSII	-0.72	1.37	0.38	-0.26	-0.57	0.88	-0.10	0.88	-0.10	0.16	0.85	-0.25	-0.15	-0.40	-0.45	-0.43	1.72	-0.31
TIRIKI	0.58	0.65	-0.01	0.90	0.92	0.21	-0.36	0.13	0.58	-0.87	-1.38	0.30	0.64	-1.04	-1.19	0.54	-0.28	1.23
MARAGOLI	-0.95	-0.15	1.24	-1.18	1.51	-0.11	-0.09	1.58	-0.33	-1.44	-1.36	1.86	-0.04	0.68	0.91	0.27	0.12	-1.72
BUNDYORE	0.87	1.50	-0.10	-0.06	-0.36	-1.41	-1.79	-1.67	0.54	0.83	1.24	0.37	0.97	-0.53	-1.09	0.07	-0.08	-0.71
IDAKHO	1.71	-0.25	-0.38	-3.91	1.05	-0.24	-0.93	-0.84	-0.85	1.41	0.27	-0.22	-0.46	0.86	-0.80	-1.22	-0.18	1.87
MARAMA	0.66	0.52	0.27	0.38	-0.15	-1.47	1.26	-0.98	-0.94	-0.29	1.01	-0.12	-1.80	-1.37	-1.43	-1.26	-0.44	1.48
WANGA	0.22	0.31	1.62	-0.71	-0.64	2.31	1.53	0.44	0.77	0.34	-1.33	-1.86	0.61	-1.60	-0.33	-1.56	-0.99	-1.59
MARACH	0.31	1.11	-1.63	-1.41	-1.15	-1.40	-2.46	0.97	0.66	-0.48	-1.79	-1.71	-0.80	0.15	-1.30	-0.13	-0.26	0.02
BUKHAYO	-0.42	-1.66	0.47	0.10	-1.19	-0.72	1.18	1.36	-0.01	0.45	1.67	-0.11	-0.32	-1.69	-1.01	2.49	0.41	-0.34
SAMTA	-1.07	0.06	-0.51	0.32	1.10	0.78	-0.04	-0.69	-0.22	-0.96	0.45	0.50	1.18	-1.42	-1.30	-1.48	-0.59	-0.77
BUTSOTSO	-0.83	0.52	1.86	-0.36	0.19	1.48	-0.73	1.28	0.32	0.62	0.41	0.34	0.19	-0.34	0.29	1.50	0.16	4.38
BUNYALA	0.47	0.53	0.94	-0.98	-0.56	0.54	0.96	-0.69	5.93	-0.48	0.75	0.25	3.89	0.66	0.01	-1.84	-0.36	0.69
KABRAS	-0.70	-1.10	2.11	-1.36	0.22	-1.50	0.77	-1.40	-1.06	-1.06	-0.09	-0.18	-0.22	0.59	-0.14	-0.76	-0.09	-0.57
KIKUSU	-0.82	-0.45	-2.28	-2.15	-0.28	0.77	0.49	-0.08	0.03	-0.20	-3.15	2.20	0.02	1.53	-0.82	1.59	0.18	-0.98
KIAMBU KIKUYU	-0.59	-0.38	-0.19	0.15	-0.45	1.70	2.36	1.17	-0.46	2.18	-1.33	0.38	-0.05	2.04	-0.15	1.59	-1.12	-0.80
MURANGA KIKUYU	0.24	0.11	-1.44	0.19	0.58	-0.11	0.65	-0.73	0.77	-1.33	-0.38	0.80	-1.63	0.45	0.11	-0.12	0.30	-0.21
NYERI KIKUYU	-1.27	0.23	-0.89	0.14	0.58	-0.11	0.55	-0.73	0.77	0.66	-1.73	0.21	1.00	-0.25	0.26	0.61	4.81	0.50
NDIA	0.31	-0.05	0.03	0.55	0.36	0.50	-0.80	-0.47	-0.08	-1.73	-0.11	-1.00	1.22	0.49	0.55	-0.15	0.22	-0.53
KAMBA	-0.21	0.02	2.35	-0.45	1.11	-1.42	-0.53	-0.07	0.07	-0.63	0.15	-0.10	0.08	-0.54	-0.87	0.50	-0.04	0.34
EMBU	1.40	-1.74	0.05	0.53	0.18	-0.32	0.75	0.53	-0.26	-1.44	0.58	-0.17	0.18	0.09	-0.17	-0.91	0.31	-0.61
MBERE	-0.34	-1.24	-0.78	-0.50	0.91	-0.50	0.67	-0.16	0.29	-0.45	-0.38	-0.36	1.12	-0.02	-1.13	-0.30	-0.03	0.34
CHUKA	1.28	-0.87	-0.76	0.06	0.97	0.96	-0.75	0.69	-0.57	-1.02	-0.38	0.12	0.83	0.26	1.06	0.62	-0.08	0.74
MUTHAMBE	0.48	-0.47	-1.55	0.40	0.55	0.70	-1.01	0.47	-0.50	-0.77	0.21	-0.60	0.18	0.32	0.25	0.39	-0.51	-0.48
MWIMBI	0.93	-1.64	-0.13	-0.76	-1.23	0.41	0.77	1.16	0.84	0.31	1.56	0.15	0.10	0.11	0.31	-0.04	-0.66	-0.18
IGOOJI	0.69	-0.22	-0.03	0.21	-0.21	0.18	1.01	-0.25	-0.43	0.51	-0.72	0.44	0.18	-1.79	0.54	-0.38	0.34	0.74
IMENTI	0.15	0.30	-1.93	0.39	0.40	-0.61	0.94	0.96	-0.56	-0.87	-0.30	-0.13	0.51	-0.11	-0.87	-0.58	-1.20	1.63
ITICANIA	-0.76	-0.35	-0.52	0.50	2.10	-1.27	-0.06	-0.13	-0.12	0.44	-1.20	-1.25	0.16	-0.45	-0.82	0.16	-0.23	-0.70
IGERDE	-1.04	-2.09	0.16	0.20	0.47	-0.33	0.83	-0.01	0.74	1.68	-0.67	-0.21	-1.76	-2.69	1.95	-0.61	-0.26	-0.40
THARAKA	2.12	-0.70	0.57	0.17	0.48	-0.81	0.79	-0.78	-0.05	-0.46	-0.07	-0.73	-0.02	0.59	1.73	-0.04	0.04	1.44
POKOMO	0.58	-0.10	1.16	0.00	-1.87	-0.13	0.15	-0.43	-0.12	-0.05	-1.10	-0.36	-0.79	0.26	-0.12	-0.16	-0.46	-0.21
GIRIANA	1.22	-0.60	-0.06	-0.62	-2.91	0.20	-1.10	0.52	-0.40	-0.45	-0.67	1.29	0.93	-0.42	-1.20	1.15	0.81	-0.50
CHONYI	-0.54	3.42	-0.16	-2.03	-0.53	-0.59	2.06	-1.52	-1.55	-1.91	0.58	-0.75	0.00	-1.79	2.03	2.15	-0.44	-0.71
MID MJI KENIA	-0.20	-0.47	-0.30	0.42	0.17	-0.77	-1.75	0.72	0.05	0.76	-0.87	3.17	0.43	-0.19	2.97	-1.08	-0.89	0.09
DIGO	2.54	2.62	0.47	1.57	-0.71	-0.71	0.17	2.09	-0.29	1.06	0.56	1.02	-0.19	0.28	0.41	-0.26	0.27	-0.30
TAITA	1.10	-0.31	-1.15	0.35	0.42	0.77	-0.39	-1.08	1.01	-0.71	0.62	2.33	-0.46	-1.07	-0.98	1.58	-0.85	-0.16
TAVETA	0.77	0.79	-1.14	0.21	0.21	-0.05	1.87	0.70	0.07	2.14	-0.36	0.46	0.22	0.18	0.56	-0.76	-0.91	-0.05

TABLE AP.3.19 (UNROTATED COMPONENT SCORES (MALES): BASED ON 32 PALMAR TRAITS.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10
SONALI	-0.88	-0.86	-0.66	0.87	0.88	0.96	-0.66	0.58	-0.76	-0.36
RENDILLE	-0.75	-0.72	-0.55	-0.12	0.27	0.20	0.03	1.56	-0.25	-0.71
GABORA	-1.42	0.53	-0.44	-0.29	1.25	0.77	2.40	-0.06	-0.39	2.19
BORAN	-1.46	0.34	0.89	0.49	0.66	0.70	0.36	1.04	0.12	-0.31
BURJI	-0.34	-1.54	-0.24	-1.37	0.70	1.13	-1.05	1.50	0.53	-0.28
SAMBURU	-1.06	-0.17	-1.24	0.80	-0.31	0.30	-1.58	-0.38	-0.24	-0.43
KADJIADO MAASAI	0.82	1.04	-1.27	-1.41	-1.54	-0.97	0.74	0.04	-0.45	-2.04
MAROK MAASAI	-1.13	1.31	-1.02	-1.22	-0.46	-0.56	0.62	-0.51	0.12	-0.50
NGUESI	-1.89	-0.87	0.83	1.09	-0.53	0.86	1.49	-1.54	1.24	-2.01
MUKOGODO	-0.70	0.84	-0.49	-1.51	0.88	0.39	-0.19	2.04	-0.25	0.19
KONY	-1.34	0.48	1.25	-0.36	0.13	0.03	0.59	-1.32	-1.45	-1.39
HANDI	-0.56	-0.06	0.20	0.34	-0.09	-0.17	0.79	0.01	-0.48	-0.52
KIPSIGIS	-0.39	-0.77	0.13	-0.52	-1.14	-0.99	0.17	-0.04	-0.10	0.66
TUGEN	-1.91	1.09	0.62	0.32	0.25	-0.27	-0.20	-0.41	0.04	1.13
KEYO	-0.91	1.10	0.26	0.72	0.37	-0.57	-0.88	-0.09	0.87	-1.14
MARAKVET	-0.61	-0.18	0.28	-1.17	-0.13	-0.25	0.72	-0.43	0.14	-0.47
POKOT	-0.55	0.30	0.65	-0.04	-1.87	-1.75	0.75	0.61	-1.19	-0.55
ITESO	0.64	0.50	-0.31	0.04	0.85	-0.23	0.87	0.63	1.14	-1.11
TURKANA	0.58	-0.24	0.42	0.24	0.96	0.02	0.51	-0.14	0.54	-1.44
LUO	1.46	0.04	0.29	-0.08	0.53	0.16	0.32	-0.36	0.67	-0.51
GUSII	0.32	-0.88	0.46	0.51	0.29	-1.48	-1.44	-0.63	1.16	0.83
TIRIKI	0.63	0.70	0.40	-0.10	0.06	-1.13	-0.22	-1.41	-0.14	1.37
MARAGOLI	-0.24	-0.26	-0.18	-1.08	-2.16	3.25	1.05	-2.01	1.09	1.39
BUNYORE	0.76	-1.88	-0.51	-1.58	0.47	-1.67	0.03	-0.55	-0.32	-0.01
IDAKHO	1.49	0.65	-1.92	0.84	-1.33	0.22	-1.11	-2.04	-0.83	-0.14
MARAMA	1.50	0.52	1.04	-2.48	0.32	-2.28	0.42	-0.33	0.32	2.33
WANGA	0.95	0.18	2.26	0.37	1.00	0.14	-0.63	1.52	-0.44	0.93
MARACH	1.35	0.15	0.51	-2.18	-0.34	1.13	0.25	-0.55	1.11	-2.24
BUKHAYO	-0.32	1.95	-2.19	0.54	2.64	0.25	-0.28	-0.36	2.39	0.15
SANIA	-0.79	-0.35	1.36	-0.07	0.75	1.72	-3.06	-0.53	-2.39	-0.75
BUTSOTSO	2.32	1.71	-1.76	-0.47	2.27	0.51	0.92	0.34	-2.70	-0.07
BUNYALA	2.05	2.11	0.95	-0.99	0.40	0.09	-1.91	-1.66	0.35	0.30
KABRAS	-0.10	0.69	-0.77	0.84	-1.32	-2.41	-1.14	2.04	0.04	-0.96
BUKUSU	-0.21	-1.36	0.12	0.93	0.78	-0.43	1.34	-1.86	-0.40	-0.64
KIAMBU KIKUYU	-0.37	0.88	0.24	0.95	1.32	-0.09	0.09	0.41	0.85	-0.69
MURANGA KIKUYU	0.73	1.18	2.74	0.03	-0.88	1.06	0.05	1.30	1.19	0.70
NYERI KIKUYU	-0.50	0.41	0.26	-1.59	-2.07	0.07	-0.51	0.94	-1.31	0.50
NDIA	0.04	-0.44	0.60	0.52	0.00	-0.39	0.13	-0.45	-0.26	-0.48
KANBA	0.33	0.51	-0.15	1.28	0.26	0.43	0.57	0.85	0.11	-0.16
EMBU	-0.57	-0.61	-0.24	0.52	1.17	-1.12	0.45	0.76	-0.10	0.63
MBERE	0.63	-0.92	0.67	1.10	-0.92	-0.72	0.10	0.21	0.12	-0.43
CHUKA	-1.70	-0.71	-0.91	-0.39	0.91	-1.64	-0.33	-1.80	-0.72	0.47
MUTHAMBE	-0.03	0.78	-0.42	0.65	-2.00	0.28	-1.14	-0.13	0.69	1.27
MWIMBI	-0.85	0.87	0.41	0.58	-0.20	-0.31	-0.45	0.64	-1.32	0.38
IBOJI	0.34	-0.38	-2.15	1.06	-1.60	-0.09	-1.26	-0.22	1.60	0.01
IMENTI	-0.59	-2.23	-1.61	-2.58	0.88	0.85	-0.95	0.29	0.75	0.66
TIGANIA	-0.37	0.60	1.05	0.30	0.47	0.38	-1.14	0.50	1.72	-0.22
IGEMBE	-1.04	-1.02	0.49	0.71	0.68	0.23	-1.04	-0.67	0.35	2.37
THARAKA	-0.11	0.93	1.12	0.48	-0.45	0.28	1.19	-1.05	-0.36	0.16
POKOMO	-0.27	-0.27	-0.30	0.07	-0.18	-0.04	0.93	-0.06	-0.08	0.13
HALAKOTE	1.36	-1.06	-0.46	-0.41	-0.72	0.27	0.55	1.56	1.66	-0.59
GIRIANA	0.33	-1.69	0.44	0.62	-0.24	0.17	-0.34	0.46	0.22	0.48
CHONYI	1.05	-2.09	0.06	1.29	0.09	-0.93	1.23	-0.15	0.33	0.06
MID MJI KENDA	1.06	-1.83	-0.02	1.17	0.51	0.95	-1.30	-0.59	-1.99	-0.91
DIGO	0.46	0.11	1.03	-0.07	0.15	1.06	0.92	0.41	-0.42	-0.05
TAITA	1.10	0.97	-1.90	1.34	-1.04	1.76	1.16	1.31	-1.44	1.31
TAVETA	0.07	-0.95	0.44	0.68	-0.12	-0.14	1.11	0.75	-0.63	0.71

TABLE AP.3.20 : UNROTATED COMPONENT SCORES (FEMALES): BASED ON 32 PALMAR TRAITS.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10
SONALI	-0.38	-0.70	-1.05	-0.83	0.44	-0.21	-1.07	-0.12	-0.88	0.70
RENDILLE	0.67	-1.70	-1.47	1.43	2.05	0.31	-1.23	2.54	0.52	0.14
GABBRA	-0.82	-1.24	-0.59	-0.17	-1.09	-0.70	-0.16	-0.14	0.14	-0.38
BORAN	-1.24	-1.82	0.44	-0.29	-1.25	-0.33	-0.81	-0.27	0.01	-1.77
BURJI	-0.35	-0.35	-0.40	0.40	-0.66	0.95	-0.44	0.76	-0.36	-0.33
SAMBURU	-0.14	-0.89	-0.41	0.51	0.11	-0.46	-0.96	0.42	-0.87	-0.38
KADJIADO MAASAI	0.45	0.57	-0.54	0.61	0.88	0.69	-0.35	-0.34	0.09	0.25
KONY	-0.68	-2.06	0.56	-2.38	0.36	1.72	-0.56	0.22	-1.85	-0.53
MANDI	-0.40	-0.16	-0.57	-1.42	0.34	0.86	0.38	-1.11	-0.63	0.32
KIPSIGIS	-0.80	-0.43	-0.10	-0.35	-0.63	0.80	0.29	0.89	1.30	-0.94
TUGEN	-0.97	0.22	-0.49	0.87	0.57	-0.34	0.27	0.91	-0.82	0.97
KEYO	-0.22	0.53	0.37	-0.35	0.02	0.83	0.77	-1.96	-0.33	-0.05
MARAKVET	-0.85	0.26	-0.55	-0.89	-0.04	-0.04	0.54	0.35	0.34	-0.83
POKOT	-1.87	1.08	-0.40	-0.89	0.86	1.39	-0.89	0.80	-0.31	0.60
ITESO	0.22	-0.40	0.02	1.05	1.07	-0.09	0.04	0.56	-2.04	-0.38
TURKANA	0.91	-0.05	0.16	1.28	-0.71	0.82	0.40	-1.01	0.20	-0.02
LUD	1.50	0.34	-0.06	-0.46	-1.28	-0.19	0.29	-0.55	-0.19	-0.17
GUSII	1.22	1.21	0.35	-0.12	-1.97	-1.34	-0.95	-0.15	0.30	-0.75
IRIKI	1.38	0.69	1.85	-0.29	2.60	1.66	0.94	0.19	0.11	-0.35
MARAGOLI	0.84	0.78	0.45	2.38	-0.10	-0.86	-0.24	-1.53	-2.79	-0.40
BUNYORE	-1.50	0.45	0.72	-0.35	-1.36	2.49	2.06	-0.09	0.90	0.35
IDAKHO	3.10	0.89	-2.59	-1.63	1.48	0.42	1.49	-2.38	0.99	-0.61
MARAMA	0.90	1.35	-0.45	2.01	-0.23	-0.16	-0.80	0.46	1.86	0.18
WANGA	-0.13	1.85	-0.27	0.48	-0.80	-0.82	1.00	1.01	-0.14	-0.83
MARACH	-0.87	0.35	0.84	1.60	1.73	-1.19	0.67	-1.87	-0.80	-0.77
BUKHAYO	0.46	1.34	-0.39	-1.00	-0.82	-0.63	1.05	0.95	-1.66	3.34
SAMIA	0.11	1.93	-1.50	-0.80	0.72	0.90	-0.47	-0.76	1.00	0.65
BUTSOTSO	-0.34	0.44	-0.43	0.57	0.15	-0.79	2.49	0.46	-1.38	-0.86
BUNYALA	-0.59	-0.33	1.77	0.34	-0.22	-1.72	0.66	-0.53	-0.28	-0.40
KABRAS	1.91	0.73	1.01	-1.15	0.03	-1.34	-0.75	1.00	-1.60	-1.45
BUKUSU	0.37	-3.50	0.21	1.14	-0.23	0.20	-0.53	-2.57	-0.03	1.00
KIAMBU KIKUYU	-0.65	0.12	-1.53	-0.17	0.59	0.65	0.82	1.77	0.05	-0.90
MURANGA KIKUYU	-0.57	1.14	-0.29	0.15	-0.32	1.42	-1.72	-0.33	-0.31	0.64
NYERI KIKUYU	-0.51	0.06	-1.58	-1.34	-0.16	-2.55	-0.66	-0.70	-0.41	-1.12
NDIA	-0.70	0.27	0.04	-1.23	0.24	-0.35	1.24	0.69	-0.08	-0.88
KAMBA	-0.40	0.26	-0.43	0.69	0.72	-0.85	0.64	0.48	0.15	2.09
ENBU	-0.52	-0.85	0.65	-0.27	0.07	-1.10	0.45	-0.83	0.12	0.77
MBERE	-0.40	-0.61	-0.53	0.00	-1.26	-0.37	-0.09	-0.69	0.07	0.76
CHUKA	-0.92	-1.12	-0.05	-0.12	0.37	0.16	0.31	-0.90	1.35	0.23
MUTHAMBE	-0.18	0.53	0.41	0.03	-0.44	-0.27	-1.64	0.26	0.42	-0.35
MWINDI	-0.23	0.60	0.82	1.36	-1.19	1.15	-0.99	-0.54	0.14	-0.94
IGOJI	-0.68	-1.10	0.46	1.12	0.29	-0.29	1.04	0.84	0.90	0.41
IMENTI	0.64	-1.38	-1.91	0.10	-1.01	-1.39	-0.43	1.10	0.80	1.03
TIGANIA	0.71	-0.27	1.39	-0.51	1.73	-0.46	-1.18	0.82	-1.28	1.64
IGENBE	-0.83	0.53	1.00	0.91	1.31	0.03	0.41	0.12	1.47	-1.79
THARAKA	-1.66	1.35	1.11	-0.44	-0.35	-0.42	-0.39	-0.61	-0.13	2.50
POKOMO	0.10	-0.40	0.14	-0.67	-0.06	0.50	0.00	1.23	-1.30	-0.95
GIRIANA	1.03	-0.87	0.10	1.07	-0.87	0.44	3.17	0.78	0.05	0.30
CHONYI	1.71	-0.14	2.01	-1.14	-0.02	-1.37	0.10	0.46	2.59	0.98
MID MJI KENDA	0.00	-0.23	1.67	-1.04	1.63	-0.47	-0.12	-0.06	1.43	-0.22
DIGO	0.16	-0.24	0.98	-0.61	-1.00	0.94	-0.15	0.41	0.15	-0.55
TAITA	2.30	-0.71	0.10	-0.03	-2.02	2.23	-0.53	0.99	-0.49	0.44
TAVETA	-0.26	0.98	-1.21	-0.02	-0.27	0.30	-1.90	-0.64	0.96	-0.41

Table Ap.3.21: Rotated component scores(males): based on 32 palmar traits.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10
SOMALI	-0.53	-0.58	0.11	0.44	-0.33	0.96	0.01	0.00	-0.39	-1.12
RENDILLE	-1.05	-0.97	-0.33	0.23	-0.94	0.80	0.45	-0.74	0.12	-0.12
GABBRA	-0.46	-0.38	0.47	0.34	1.11	0.52	-0.52	-0.91	-3.02	1.74
BORAN	-1.58	-0.09	-0.21	-0.43	-0.09	1.17	-0.14	-0.40	-0.56	0.03
BURJI	-0.95	-1.28	-1.03	0.63	-0.38	0.56	2.29	0.19	-0.03	-0.44
SAMBURU	-0.91	-1.02	0.42	0.63	-0.07	-0.17	-0.35	0.86	0.20	-1.54
KADJIADO MAASAI	-0.23	0.44	0.16	2.44	-1.24	0.22	-1.42	0.04	1.66	0.59
NAROK MAASAI	-1.10	0.41	0.36	1.84	0.06	-0.25	-1.22	0.32	0.03	0.66
NGWEST	-0.35	-0.66	-1.70	-1.20	0.96	1.23	-1.87	1.32	1.12	1.15
MUKOGODO	-1.15	-0.16	-0.25	1.35	-1.22	0.47	1.26	-0.55	-0.79	-0.02
KONY	-0.17	0.63	-1.70	0.66	1.03	0.54	-2.00	-0.58	0.06	-0.66
NANDI	-0.15	-0.12	-0.43	-0.12	-0.13	0.40	-0.93	-0.54	0.02	0.25
KIPSIGIS	0.27	-0.38	-0.62	0.25	-0.94	-1.35	-0.39	0.08	-0.38	0.35
TUGEN	-1.35	0.77	-0.01	-0.41	0.56	-0.71	-0.93	0.10	-1.50	-0.36
KEYO	-1.69	0.87	0.21	-0.60	0.36	-0.06	-0.55	0.30	1.03	-0.57
MARAKWET	-0.29	0.00	-1.04	0.93	0.26	-0.22	-0.41	0.04	0.09	0.73
POKOT	0.15	0.81	-0.75	0.39	-2.01	-0.75	-1.77	-0.94	0.24	0.13
ITESO	-0.63	0.39	0.46	-0.10	0.26	0.78	0.49	-0.41	1.28	1.32
TURKANA	-0.06	0.06	-0.47	-0.43	0.81	0.77	0.21	-0.42	1.43	0.55
LUD	0.79	0.45	0.10	-0.20	0.72	0.34	0.70	0.10	1.01	0.66
GUSII	-0.41	0.42	0.24	-1.03	0.48	-1.78	0.38	0.37	1.15	-0.47
TIRIKI	0.94	0.94	0.61	-0.04	0.90	-1.73	-0.36	-0.01	-0.46	-0.01
MARAGOLI	1.46	-0.50	-0.69	0.38	0.48	0.97	-0.40	3.76	-2.09	1.16
BUNYORE	0.83	-1.36	-0.69	1.15	0.32	-1.83	0.67	-0.97	0.94	0.48
IDAKHO	1.89	-0.40	2.12	0.56	0.20	-0.24	-1.22	1.44	0.93	-1.34
MARAMA	1.18	1.74	-0.12	1.22	0.42	-3.03	1.39	-0.92	-0.77	1.48
WANGA	0.43	1.53	-0.65	-1.43	-0.13	0.15	1.79	-1.34	-0.76	-0.70
MARACH	0.53	0.84	-1.39	1.72	0.55	1.17	0.94	1.35	1.98	0.82
BUKHAYD	-2.39	0.11	2.96	-0.10	2.31	0.40	0.83	0.55	0.43	0.90
SAMIA	0.09	0.01	-1.51	0.18	0.95	0.86	0.37	-0.05	-0.41	-4.21
BUTSOTSO	1.54	0.46	2.47	1.96	1.21	1.83	0.52	-2.70	-0.02	-0.35
BUNYALA	1.17	2.64	0.77	0.71	1.59	-0.95	1.04	1.12	0.71	-1.22
KABRAS	-1.27	0.53	1.11	-0.26	-2.75	-1.06	-0.37	-0.80	1.62	-0.65
BUKUSU	0.77	-1.34	-0.71	-0.77	1.57	-0.08	-1.51	-0.62	0.58	0.65
KIAMBU KIKUYU	-1.33	0.63	0.47	-0.98	0.75	0.67	0.08	-0.46	0.56	0.24
MURANGA KIKUYU	0.25	2.70	-1.05	-1.32	-0.93	0.68	1.27	0.90	-0.85	0.51
NYERI KIKUYU	0.23	0.66	-0.79	1.72	-2.06	-0.37	-0.19	0.28	-1.13	-0.83
NDIA	0.34	-0.07	-0.56	-0.59	0.20	-0.14	-0.55	-0.30	0.49	-0.14
KAMBA	-0.12	0.22	0.81	-0.97	-0.36	1.14	-0.03	-0.41	0.03	0.32
EMBU	-0.75	-0.73	0.29	-0.68	0.06	-0.64	0.19	-1.54	-0.38	0.45
MBERE	0.75	-0.17	-0.48	-1.30	-0.98	-0.34	-0.34	-0.09	0.89	0.11
CHUKA	-0.77	-1.41	-0.02	0.72	1.46	-2.02	-1.36	-0.68	-0.31	-0.52
MUTHAMSE	0.18	0.51	1.09	-0.44	-1.23	-0.75	-0.25	1.98	-0.77	-0.55
MWIMBI	-0.43	0.59	0.17	-0.18	-0.67	0.01	-0.74	-0.86	-0.90	-1.17
IGQUI	-0.05	-1.34	2.31	-1.23	-1.17	-0.85	-0.12	2.18	0.46	-0.21
IMENTI	-0.77	-2.56	-0.62	1.91	0.47	-0.63	2.35	0.72	-0.52	0.09
TIGANIA	-1.40	1.06	-0.28	-1.10	0.30	0.05	1.08	0.94	0.32	-0.30
IGEMBE	-0.25	-0.98	-0.08	-1.44	0.93	-1.39	0.56	0.50	-1.97	-0.73
THARAKA	0.73	1.16	-0.42	-0.40	0.55	0.40	-1.41	0.15	-0.62	0.51
POKOMO	0.12	-0.55	0.24	-0.59	-0.17	0.23	-0.79	-0.20	-0.26	0.60
MALAKOTE	0.21	-0.52	-0.15	0.01	-1.46	0.49	1.71	0.62	1.16	1.61
GIRIAMA	0.57	-1.03	-0.62	-1.19	-0.57	-0.29	0.78	0.10	-0.11	-0.14
CHONYI	2.01	-1.31	0.21	-1.77	-0.17	-0.80	0.44	-0.78	0.48	1.44
MID MJI KENDA	2.33	-1.46	-0.18	-0.70	0.45	0.94	0.49	-0.55	1.14	-2.25
DIGO	0.70	0.50	-0.74	-0.20	0.06	1.25	0.27	-0.32	-0.52	0.35
TAITA	1.48	-0.36	2.51	0.10	-1.61	2.11	-0.29	-0.15	-1.67	0.16
TAVETA	0.67	-0.57	-0.39	-0.87	-0.72	0.15	-0.12	-1.02	-0.60	0.62

Table Ap.3.22: Rotated component scores(females): based on 32 palmar traits.

POPULATION	COMP1	COMP2	COMP3	COMP4	COMP5	COMP6	COMP7	COMP8	COMP9	COMP10
SOMALI	-0.71	-0.29	-0.08	0.46	0.43	-0.74	0.15	-0.51	-1.29	-0.08
RENDILLE	-1.42	0.08	2.36	2.31	0.07	-1.64	0.13	-0.42	-1.35	-0.97
GABBRA	-1.45	-0.46	-0.80	-0.93	-0.07	-1.06	-0.26	-0.36	0.35	1.23
BORAN	-0.47	-0.31	-1.68	-0.75	0.13	-0.93	0.29	-1.28	1.02	-0.65
BURJI	0.20	-0.37	0.32	-0.33	0.92	-0.79	-0.19	-0.19	-0.04	-0.29
SAMBURU	-0.25	-0.16	-0.16	0.34	-0.47	-1.79	-0.54	0.38	0.14	1.11
KADUADO MAASAI	0.76	-0.01	0.73	0.98	0.60	0.07	0.71	-0.04	-0.45	-0.43
KENY	-0.97	-1.68	-2.21	0.42	1.14	0.64	-0.85	0.85	-0.79	-1.55
NANDI	-0.35	-0.74	-1.23	-0.07	0.12	0.81	0.27	0.53	-0.77	0.68
KIPSIGIS	-0.36	0.19	-0.15	-0.17	-0.22	0.07	-0.16	-1.32	0.58	0.64
TUGEN	0.13	-0.40	0.91	-0.18	-0.59	0.33	-0.19	-0.87	-1.38	-0.39
KEYO	0.92	-0.60	-0.58	-0.22	0.92	1.76	1.24	-0.36	0.29	-1.13
MARAKWET	0.31	-0.28	-0.47	-0.22	-0.39	0.65	0.69	-0.88	-0.33	0.19
POKOT	1.73	-1.45	-0.10	0.63	0.59	-0.04	-0.54	-1.09	-1.31	-0.30
ITESO	-0.04	-1.18	0.69	0.16	-0.66	-1.03	0.27	1.44	-0.16	-1.21
TURKANA	0.29	0.44	0.92	-0.27	1.44	0.45	1.00	-0.16	1.04	-0.91
LUO	0.08	1.43	-0.36	-0.90	0.69	0.56	0.96	0.71	0.22	-0.28
GUSII	0.82	2.68	-0.80	-1.25	0.00	-0.51	1.03	-0.39	0.32	-0.75
TIRIKI	1.16	-0.04	0.24	2.86	-0.29	1.24	-0.87	1.49	0.82	-0.88
MARAGOLI	1.25	-0.85	0.53	-0.87	0.30	-1.45	1.25	1.88	0.92	-1.77
BUNYORE	0.86	-1.54	0.22	-1.06	1.20	1.64	-1.94	-0.21	1.56	2.23
IDAKHO	-0.83	0.91	-0.33	1.98	1.01	2.19	3.49	1.76	-0.41	1.94
MARAMA	0.90	1.34	2.18	0.72	0.02	-2.04	-0.38	-0.32	1.25	1.88
WANGA	1.41	0.46	0.63	-1.30	-1.35	-0.33	0.41	0.23	0.38	0.97
MARACH	0.26	-1.88	0.20	0.46	-1.61	-0.53	1.40	0.14	0.97	-0.10
BUKHAYO	0.51	0.70	1.03	-2.22	-0.18	1.42	-0.99	1.30	-2.89	-0.20
SAMIA	1.44	0.12	-0.27	1.26	0.58	0.24	0.06	0.12	-1.03	2.58
BUTSOTSO	0.28	-1.17	1.04	-1.47	-1.54	0.70	1.40	0.76	0.28	-0.24
BUNYALA	-0.55	-0.04	-0.81	-0.72	-1.62	-0.40	-0.62	-0.13	1.30	-0.54
KABRAS	0.27	1.41	-1.94	0.04	-1.74	-1.15	-0.33	2.73	0.31	-0.03
BUKUSU	-3.25	-1.09	-0.25	0.31	1.94	-0.63	-0.20	0.23	1.20	-0.30
KIAMBU KIKUYU	0.20	-1.03	0.77	0.32	-0.54	-0.37	0.19	0.14	-0.50	1.42
MURANGA KIKUYU	1.58	-0.31	-0.47	0.33	1.41	-1.04	-0.93	-0.08	-0.67	0.44
NYERI KIKUYU	-0.71	0.31	-1.95	-0.63	-1.46	-0.89	1.91	-0.48	-1.19	0.62
NDIA	0.17	-0.41	-0.51	-0.38	-1.19	1.11	0.34	-0.19	-0.15	0.12
KAMBA	-0.07	0.14	1.88	-0.38	-0.52	0.99	0.27	-1.15	-1.76	-1.20
EMBU	-1.33	-0.49	-0.94	-0.37	-0.82	0.22	-0.84	0.09	0.37	0.72
MBERE	-0.77	0.07	-0.22	-1.17	0.78	-0.11	0.11	-0.62	-0.32	0.22
CHUKA	-0.96	-0.50	-0.05	0.94	0.47	1.00	0.35	-1.74	0.21	-0.22
MUTHAMBE	0.74	1.06	-0.62	0.19	0.14	-0.85	-0.12	-1.03	-0.17	-0.83
MWIMBI	1.42	0.19	-0.09	-0.28	1.31	-0.94	0.01	-0.71	1.51	-0.80
IGOUJ	-1.08	-0.47	1.55	-0.09	-0.51	0.28	-0.63	-0.97	0.67	-0.15
IMENTI	-2.05	1.47	0.99	-0.76	0.36	-0.75	0.64	-0.86	-1.58	0.31
TIGANIA	-0.48	0.04	-0.18	1.23	-1.06	-0.50	-2.25	1.93	-1.13	-0.72
IGEMBE	1.01	-0.19	0.48	1.34	-1.15	0.55	0.77	-1.79	1.59	-1.01
THARAKA	1.04	-0.27	-0.42	-1.01	-0.34	0.65	-2.01	-0.83	-1.12	0.13
POKOMO	0.06	-0.39	-0.45	-0.22	-0.12	-0.26	-0.15	0.92	-0.23	-0.79
GIRIAMA	-1.23	-0.44	2.19	-1.35	-0.07	1.02	-0.45	1.63	1.68	1.46
CHONYI	-0.98	3.29	-0.17	0.80	-1.12	1.96	-1.61	-0.62	1.00	-0.58
MID MUI KENDA	-0.44	0.49	-0.80	1.87	-1.33	1.05	-0.98	-0.42	0.69	-0.03
DIGO	0.27	0.56	-0.61	-0.32	0.84	0.50	-0.52	-0.20	0.66	-0.62
TAITA	-0.14	1.51	0.54	-0.56	2.89	-0.11	-0.80	1.58	0.26	-0.65
TAVETA	0.82	0.48	-1.46	0.90	0.78	-1.22	0.00	-0.52	-0.55	1.93

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