NOTES AND COMMUNICATIONS

SEX – RATIO OF LIBYAN POPULATION

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One of the most important characteristics of the population of a country is its sex composition. The replacement and growth of a population is largely dependent on the proportion of females in the population.

We define here sex-ratio as the ratio of females to males ; this is also known as femininity of the population.

Stampolis[1] has made some remarks on the sex-ratio of the Libyan Population. His remarks were based on materials released in the Preliminary Results[2] of the General Population census 1964. He regretted the unavailability of distribution of the population in age-groups at that time. Now age wise distribution is available[3] and we propose to analyse the same for Sex-ratio.

All the countries can be grouped into two groups on the basis of proportion of females in them :

(a) Countries in which the number of females is less than that of males,

(b) Countries in which the number of females is more than that of males.

Libya belongs to group (a), others in this group are India, Turkey, Union of South Africa, etc.

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Under group (b) come European Countries, Great Britain, Iraq etc.

Egypt was under (b) according to its census of 1947 but the U.A.R. has moved to group (a) according to its census of 1960.

In the Table I A we present the ratio of females to males as observed in the Western Districts (Muquâtaa) and in the Table I B we give ratio for Eastern Districts and Southern Districts. In Table II the ratio for the whole of Libya is presented.

In the Western Districts, among the persons below the age of twenty years, there are more males than females. Between the ages twenty and fifty five years there is a tendency to find more females in districts other than Tripoli. This may be due to migration of males from these Districts to Tripoli Town. In the age groups above fifty years, the proportion of females drops down very much.

In the Eastern Districts, in groups below twenty years, thier appears a tendency to find more females ; in age groups over twenty and below fifty five males are more numerous than females. In the age groups above fifty five years the proportion of females falls down very much.

In the Southern District of Sebha the Situation is similar to Eastern Districts but in Ubari females are more numerous than males in almost all age groups.

In almost all the districts the proportion of females declines over age groups above fifty five years. This may be due to a differential mortality rate for women in these age groups. The analysis of the total citizen-population also exhibits this feature. We present this analysis in the Table II. Here we find that although the sex-ratio fluctuates from one age group to another yet in the higher age groups the decline of femininity sets in. We have also plotted the sex-ratio for total citizen population on a graph by plotting the sex-ratio of a group against the central age of the group. We have fitted a straight

line by the Least Squares Method to bring out the trend. The down_ ward Slope of the Straight line shows the decline of femininity very clearly.

The excess of males in Libya appears to be due to biological reasons. The number of male children below the age of one year exceeds that of the female children in every district of Libya, even Ubari is no exception to this. So the deficiency of females may be due to more male births everywhere in Libya. The difference in pattern of sex-ratio between Eastern and Western Districts perhaps reflects the influence of ethnic groups found there. This point needs further studies for clarification.

References

1   Dr. A. Stampolis, Libyan Population Trends **Libyan Economic & Business Review, Vol, p 58.**

2   Preliminary Results of the General Population Census 1964, **Census & Statistical Department, Tripoli (1964).**

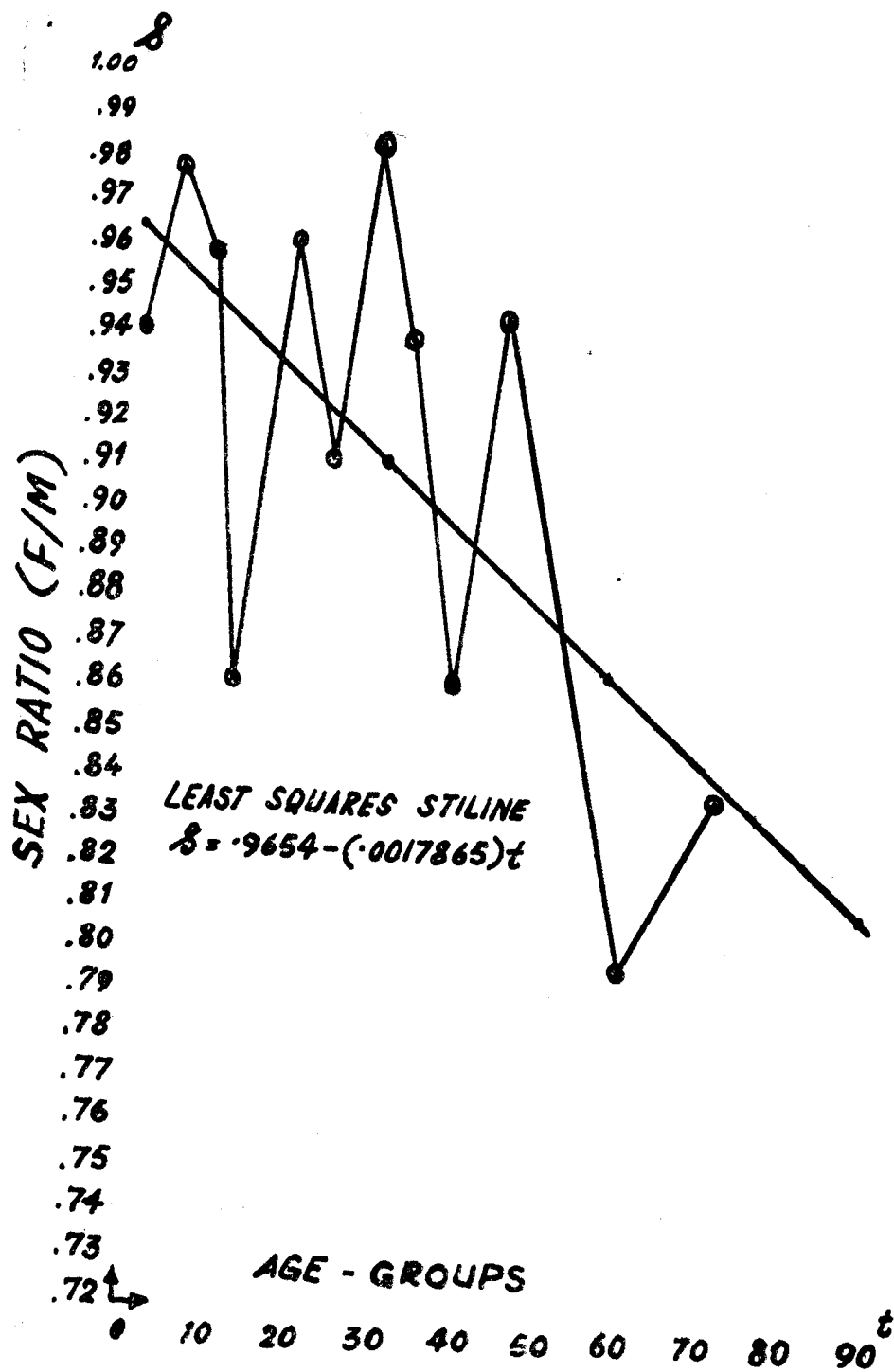3   General Population Census 1964 **Census & Statistical Department, Tripoli (1966).**

SEX RATIO (F/M)

AGE - GROUPS

LEAST SQUARES STLINE
$\hat{s} = .9654 - (.0017865)t$

TABLE I A

Age - Group	TRIPOLI			MISURATA		
	Males	Females	F/M	Females	Males	F/M
Under 1 Year	7 378	7 153	.9695	2 341	2 592	.9032
1 — 4	27 853	27 023	.9702	9 617	10 260	.9373
5 — 9	27 553	26 307	.9548	10 384	11 044	.9402
10 — 14	18 336	15 897	.8670	7 025	8 522	.8243
15 — 19	12 910	12 117	.9386	4 975	5 346	.9306
20 — 24	13 980	13 370	.9564	5 096	5 262	.9685
25 — 29	15 195	14 565	.9585	5 648	5 647	1.0002
30 — 34	12 871	10 625	.8255	4 869	4 570	1.0654
35 — 39	11 279	8 447	.7489	3 731	4 196	.8892
40 — 44	7 972	6 519	.8177	3 804	3 661	1.0390
45 — 54	10 319	8 908	.8633	4 529	5 304	.8534
55 — 64	7 185	6 165	.8580	3 191	3 734	.8546
65 — 74	4 582	4 287	.9356	2 582	2 994	.8623
75 & Over	3 247	2 791	.8596	1 864	2 193	.8500
Total	180 660	164 174	.90875	69 656	75 325	.92474
Not Stated	177	146		24	5	
Grand Total	180 837	164 320	.90866	69 680	75 330	.92500

TABLE I A

EL KHOMS			ZAVIA			GEBEL GHARBI		
Males	Females	F/M	Males	Females	F/M	Males	Females	F/M
2 173	1 928	.8873	3 224	3 085	.9569	3 263	3 021	.9258
9 620	9 339	.9708	14 637	14 531	.9928	13 519	13 344	.9871
10 472	9 556	.9125	15 574	14 458	.9283	14 916	14 418	.9666
8 181	6 182	.7556	10 513	8 522	.8106	10 079	8 719	.8651
4 748	4 792	1.0093	7 470	6 434	.8613	6 476	5 875	.9072
4 813	4 623	.9605	7 157	6 766	.9454	6 507	6 307	.9693
5 250	5 466	1.0411	7 514	8 330	1.1086	7 115	7 585	1.0661
4 178	4 572	1.0943	6 332	6 300	.9949	5 858	5 896	1.0065
4 212	3 813	.9053	5 841	5 060	.8663	5 636	5 084	.9021
3 366	3 369	1.0009	4 166	3 916	.9400	3 887	3 652	.9395
5 185	4 693	.9051	6 067	5 554	.9154	5 915	5 273	.8914
3 681	3 154	.8568	4 490	3 837	.8546	4 644	3 607	.7767
2 919	2 334	.7996	3 243	2 686	.8282	3 410	2 525	.7405
2 167	1 455	.6714	2 342	1 761	.7519	2 507	1 483	.5915
70 965	65 276	.91983	98 570	91 240	.92564	93 732	86 789	.92593
12	28		42	64		29	59	
70 977	65 304	.92007	98 612	91 304	.92589	93 761	86 848	.92627

TABLE I B

Age - Group	BENGHAZI			DERNA		
	Males	Females	F/M	Males	Females	F/M
Under 1 Year	4 904	4 552	.9282	1 268	1 226	.9669
1 — 4	19 630	18 921	.9639	5 731	5 945	1.0373
5 — 9	20 631	19 104	.9260	6 150	6 197	1.0076
10 — 14	15 595	13 745	.8814	4 690	4 726	1.0077
15 — 19	12 240	12 648	1.0333	3 994	4 113	1.0297
20 — 24	13 323	10 677	.8014	3 569	3 087	.8649
25 — 29	11 635	10 435	.8969	2 873	2 654	.9238
30 — 34	8 935	7 618	.8526	1 996	1 936	.9699
35 — 39	7 756	6 733	.8681	2 125	1 895	.8918
40 — 44	6 086	5 651	.8999	1 768	1 755	.9926
45 — 54	8 931	8 037	.9285	2 941	2 489	.8463
55 — 64	6 853	4 915	.7172	2 264	1 446	.6386
65 — 74	3 861	3 173	.8218	1 223	905	.7400
75 & Over	2 593	2 111	.8141	872	640	.7339
Total	142 973	128 320	.89751	41 464	39 014	.94091
Not Stated	179	156		15	15	
Grand Total	143 152	128 476	.89748	41 479	39 029	.94093

TABLE I B

GEBEL AKHDAR			SEBHA			UBARI		
Males	Females	F/M	Males	Females	F/M	Males	Females	F/M
1 497	1 486	.9926	971	899	.9258	576	532	.9236
6 042	5 891	.9750	3 622	3 738	1.0320	2 302	2 415	1.0491
6 213	7 063	1.1368	3 437	3 467	1.0087	2 234	2 291	1.0255
4 763	4 703	.9874	2 547	1 990	.7813	1 736	1 457	.8393
3 936	4 071	1.0343	1 906	1 741	.9134	1 398	1 338	.9571
4 336	3 331	.7682	2 106	2 146	1.0190	1 352	1 591	1.1768
3 403	3 121	.9171	2 256	2 218	.9831	1 426	1 450	1.168
1 990	2 148	1.0794	1 578	1 380	.8745	892	900	1.0090
1 941	1 992	1.0263	1 332	1 088	.8168	630	769	1.2206
1 752	1 955	1.1159	857	850	.9918	498	677	1.3594
3 267	3 095	.9474	1 529	1 323	.8652	1 029	1 049	1.0194
2 629	1 677	.6379	1 068	972	.9101	809	805	.9951
1 520	1 223	.8046	740	636	.8595	462	552	1.1948
1 195	1 038	.8686	434	406	.9355	272	367	1.3493
44 484	42 794	.96201	24 383	22 854	.93729	15 616	16 193	1.03695
9	12		9	15		8	15	
44 493	42 806	.96208	24 392	22 869	.93756	15 624	16 208	1.03737

TABLE II

TOTAL CITIZENS BY AGE GROUP AND SEX

Age Group	Males	Females	F/M	Number of Females for thousand males
Under 1 Year	27 846	26 223	.9417	942
1 — 4	113 216	110 764	.9783	978
5 — 9	118 224	113 245	.9579	958
10 — 14	84 962	72 966	.8588	859
15 — 19	60 424	58 104	.9616	962
20 — 24	62 405	56 994	.9133	913
25 — 29	62 314	61 472	.9865	986
30 — 34	49 200	46 244	.9399	940
35 — 39	44 948	38 612	.8590	859
40 — 44	34 013	32 148	.9452	945
45 — 54	50 487	44 950	.8903	890
55 — 64	37 357	29 769	.7969	797
65 — 74	24 954	20 903	.8377	838
75 & Over	17 822	13 916	.7808	781
Total	788 172	726 310	.921512	922
Not Stated	485	534		
Grand Total	788 657	726 844	.921622	922