THE REPUBLIC OF THE SUDAN
MINISTERY OF THE CABINET
CENTRAL BUREAU OF STATISTICS

جمهورية السودان
وزارة رئاسة مجلس الوزراء
الجهاز المركزي للإحصاء

Evaluation of Age and Sex Distribution Of the 2008 Census Data

United Nations Workshop on Census Data Evaluation for English Speaking African Countries
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Introduction

- Information on age and sex is important because many of the other characteristics of the population such as fertility, motility, migration, education, marriage, household formation, economic activity health, food and other consumption needs etc. are highly related to age and sex.

- In developing countries there is lack of data and deficient vital registration system. As a result, the data on sex and age from census are the only source of estimating some of the dynamics of population.

Objectives

Therefore the specific objective of the study is:

To evaluate the 2008 Age and Sex data

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Sources of Data

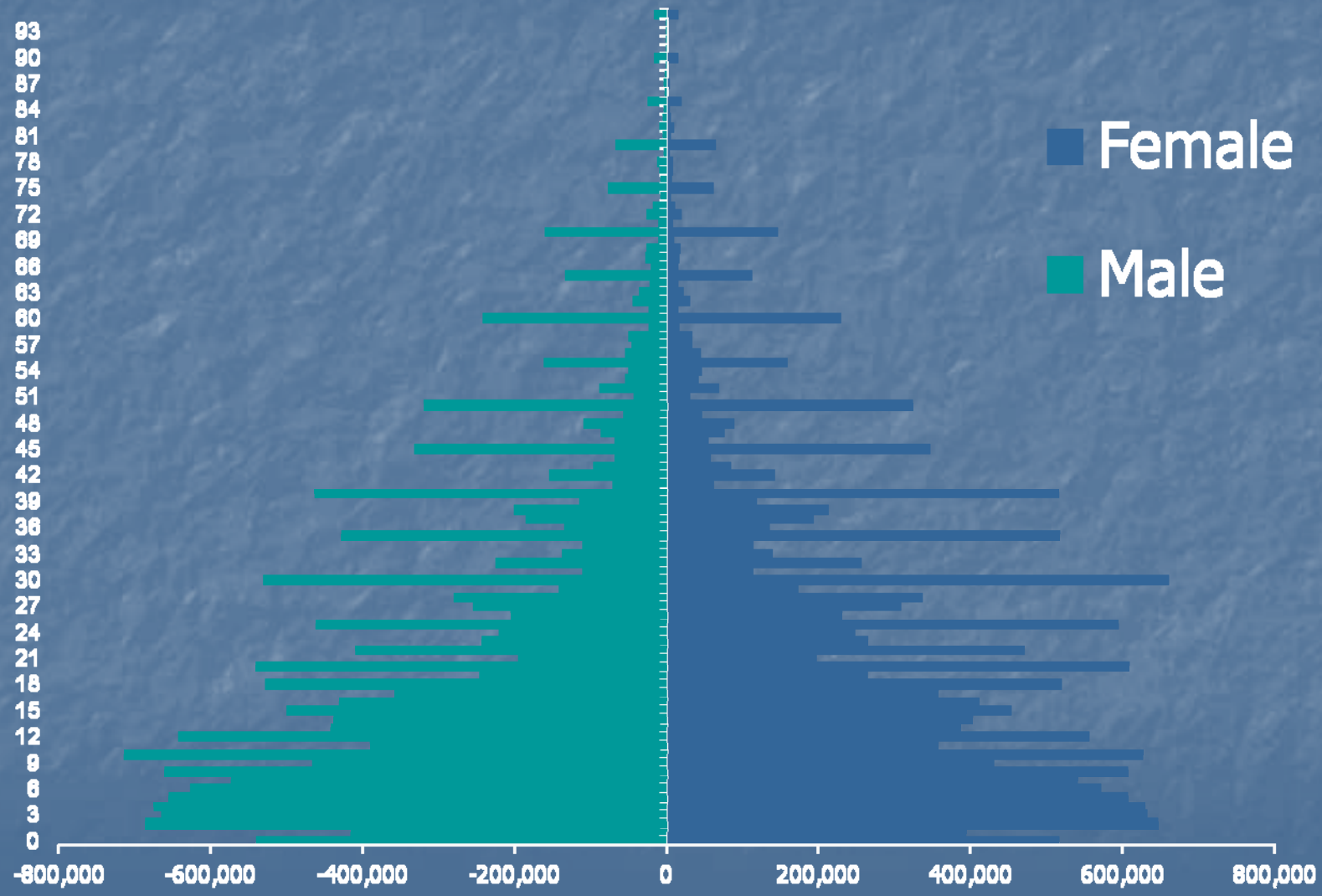
- The source of data for the study is the 2008 censuses of Sudan.

Methodology

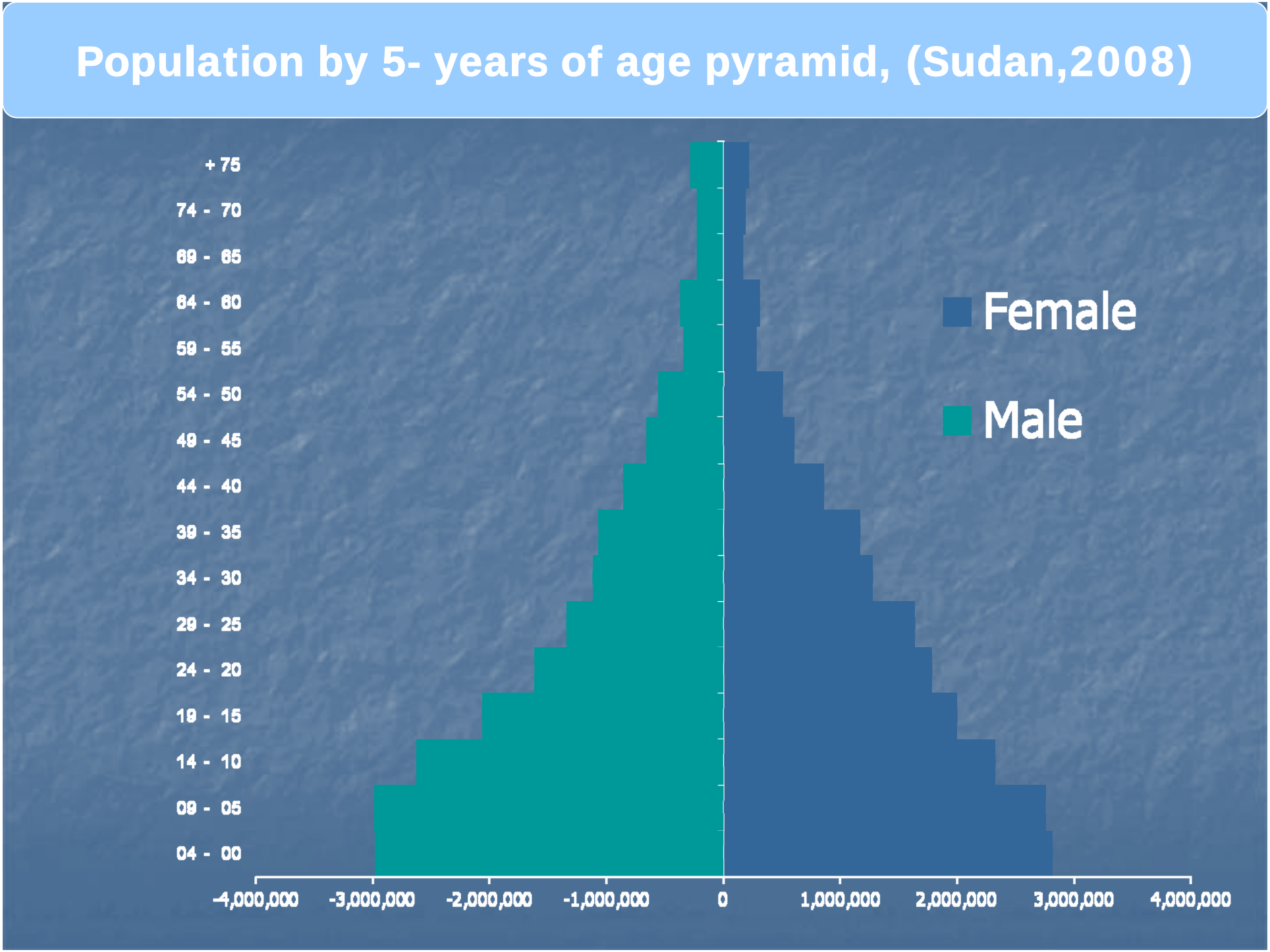
In to examine the nature of errors in 2008 census, several methods will be used.

- Graphical analysis
- Age and sex ratios
  - Whipple's index
  - Myers' Blended Method

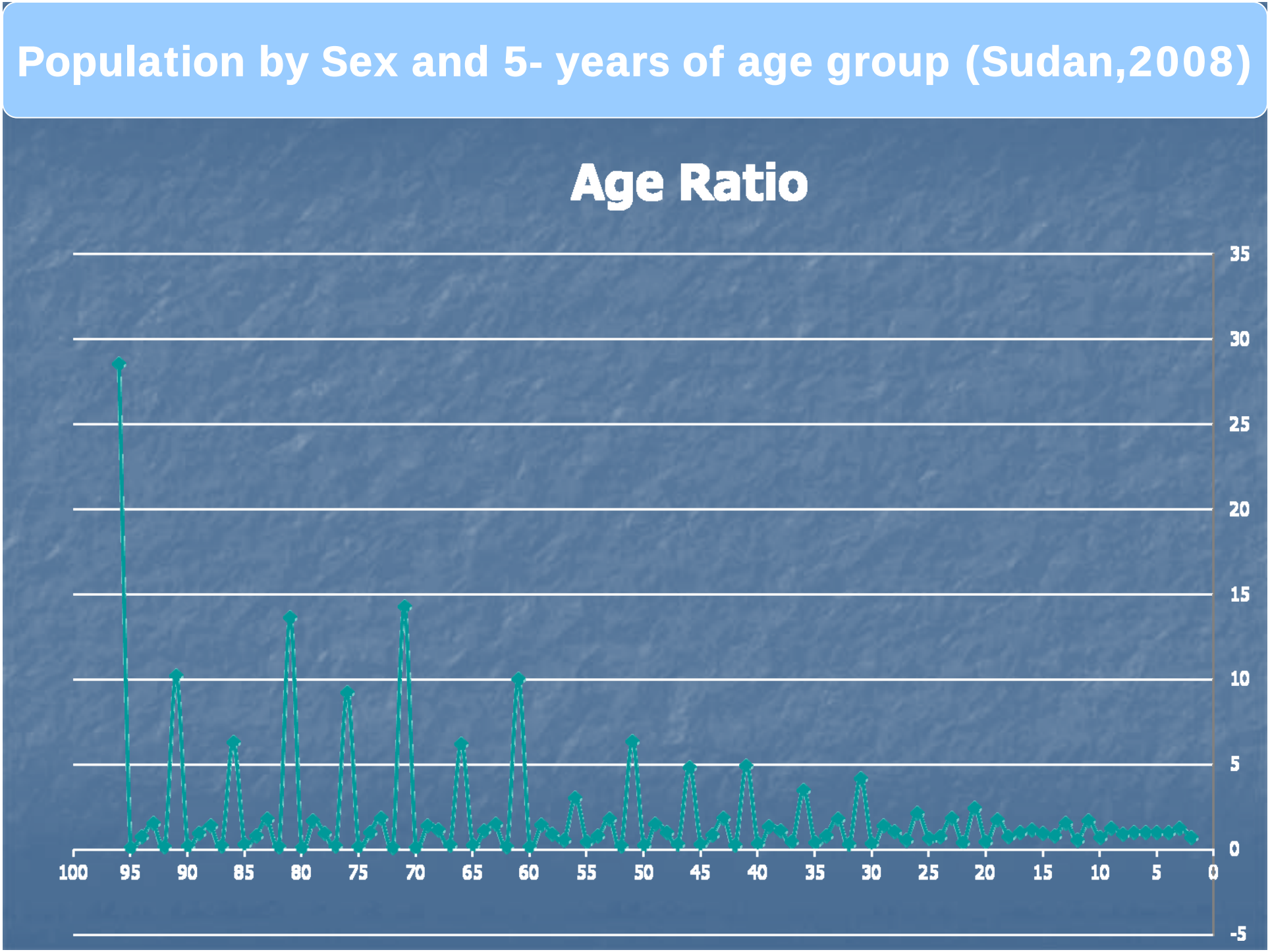
Population by single years of age and sex (Sudan,2008)



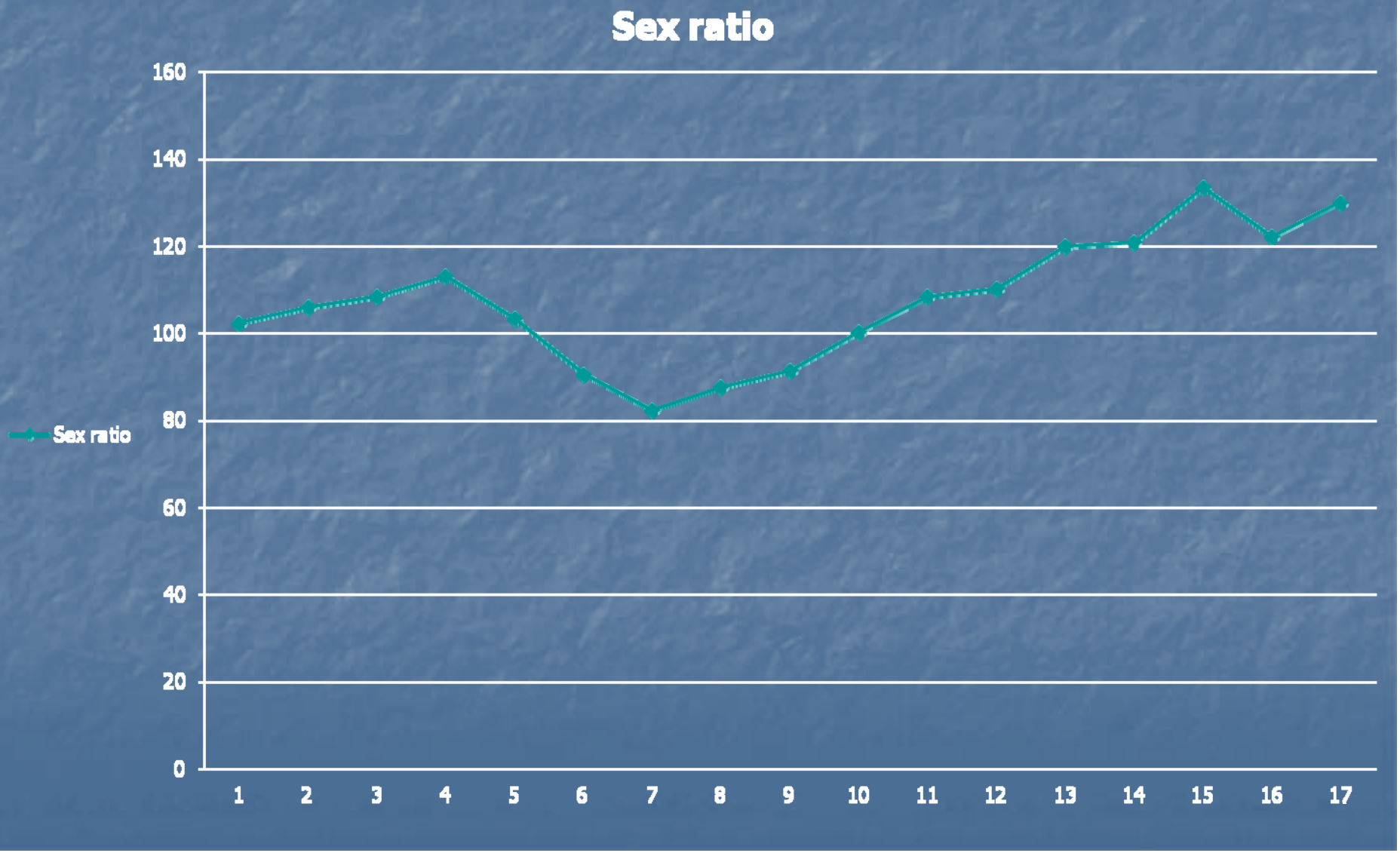
Population by 5- years of age pyramid, (Sudan,2008)



Population by Sex and 5- years of age group (Sudan,2008)



Population by single years of age and sex (Sudan,2008)



Whipple’s index for male (Sudan,2008)

Whipple’s index at 0 =231
Whipple’s index at 0 and 5 =218

Myer's Index for male (Sudan,2008)

deviation from 10% (7)	% distribution (6)	blended population (5)	Weights for col (2) (4)	Weights for col (1) **(3)**	starting at age 20+a **(2)**	starting at age 10+a (1)	**terminal digit, a**
Abs((6) -10)		**(4)*(2) + (3)*(1)**			**sum of 20+a**	**sum of 10+a**	
11.872	21.872	23992544	9	1	2,327,755	3,042,749	0
5.049	4.951	5430754	8	2	464,944	855,601	1
0.520	10.520	11539590	7	3	961,104	1,603,954	2
2.970	7.030	7711156	6	4	593,878	1,036,972	3
3.539	6.461	7087545	5	5	489,445	928,064	4
7.526	17.526	19224954	4	6	1,622,211	2,122,685	5
2.693	7.307	8015692	3	7	499,396	931,072	6
1.756	8.244	9043382	2	8	617,315	976,094	7
0.582	10.582	11607894	1	9	684,405	1,213,721	8
4.493	5.507	6040990	0	10	357,865	604,099	9
41.000	100.000	109694501					TOTAL
Index of Age=J17/2	20.500						

Conclusions

This section tried to examine the quality of the 2008 data by using different analytical techniques for testing internal consistency

Thank you for your Attention