Analysis of the State of Elementary School Student Population of East Azerbaijan during 2006-2016 and Predictions of Space and Educational Staff Required in this Field

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Abstract

Evaluation of population structure provides the possibility of predicting and estimating of requirements of human resources. Obviously, it will be impossible predict of future requirements if no exact knowledge of the characteristics of the population. Therefore the present study analyzes the primary student population of East Azerbaijan and predicts its' required space and educational staff in the next five years. The purpose of this research is applied and the type of data gathering in this study is a descriptive — analytical one. The statistical population of this study includes the total student population and expert human resources in East Azerbaijan primary education. Research tools are to refer to the Department of Education of the province and library study by using statistics and necessary information and also study of Statistical Yearbook and census results. Statistical methods of this research are: Population prediction using calculation the survival rate, Johnston formula and the rate's morality and migration of school-age population, predictions of schools enrollment rates in local-scale and estimate of required space and educational staff in the next five years in the next five years according to provincial standards. The results of this study showed that the number of primary school students in the 2016 school years compared to1390-1391 school years will increase by 4/63 percent. And consequently, the need for classrooms, educational spaces, an expert (teacher) and educational staff in the next five years will increase.

Keywords: student population, primary school, Population predictions, educational space, educational staff.

1. Introduction

The importance of education in general and elementary education in particular cannot be ignored. Certainly, there is an agreement about that a high level of economic development cannot be created in a mostly illiterate population. On the other hand, as one of the individual human rights permanently education is emphasized. Education is mentioned as one of the greatest and most important rights of each individual in the United Nations Charter in 1945(United Nations, 2003: 5-6) and as the basis of other levels, elementary education has an important place between different levels of education, so that elementary education is the education level of democratic in most countries, because essentially it is assumed that elementary education is open on all classes of society. (Garcia Gyrydy 1995: A).

According to the findings of the United Nations education has been identified as one of the essential components for human and social development. The right of education has been emphasized in the Universal Declaration of Human Rights and the importance of education has been confirmed based on population and individual progress in most of the major United Nations conferences and meetings. In addition, education has been emphasized in all international conferences on population, the practical programs of international conferences on population and development (1994) accepted quantitative goals related to education and in 1999, major programs were adopted to more practical instructions of the International Conferences on population also as a medium-term objective, the rate of the net enrollment in elementary school was determined at least 90% for both genders until 2010.

General concept of education is to provide the appropriate factors for unlocking human potential and his evolutionary movement toward the desired goal by a measured program. Certainly it can be said that a program that is designed without regard to the quantitative aspects of education, will not be a measured program. So nowadays recognize the population variables has undeniable and important role in educational planning. Without such knowledge, it

will be difficult to provide educational programs and predict capabilities and future needs of students.

Today society considers the quantitative expansion of education favorable and takes into account it as the source of progress. So in all of the development programs, people benefit from education is on the top of educational policy and educational planning and policy would be reasonable only if they are based on calculated predictions and estimates It should be noted that knowledge of the characteristics of the student population is very important and necessary for future planning of the educational system.

2. Theoretical Principles of Research

The study of the population structure means the study of its combination in other words, in the study of population structure, population distribution considered based on predetermined criterion. Because of several reasons, educational planners study the distribution of population. The main reasons are as follows:

- 1. The study of population distribution based on age and sex which allows planners to estimate the relative population number needed to teach and it is the starting point of all education policies.
- 2. The study of population distribution based on classification of economic activities and various occupations which if there is a lack of detailed knowledge of population distribution, it will be impossible to predict manpower needs.
- 3. The study of geographical distribution of the population which is important from two aspects. First, it affects education expenses and the other it is effective in determining the number and type of schools (Chav, 2010: 2).

Effective factors in quantitative trends of elementary education in general, can be divided into two categories: 1-Demographic factors (fertility population, mortality, and immigration and population growth) and 2-Educational coverage factor

Reproductive is the major determinant of age composition of a population. Age composition of population is determined by past fertility to mortality and these changes affect on the demand for education and the community's ability to meet these demands (stemper 1972:34). In other words, increase in the birth rate is equal to demand for elementary school capacity about 7-15 years later. And if it is rapid increase in fertility it can impose heavy pressure on education (Fougstedt, 1975:47).

The number of seven year old children who must attend school every year is dependent on the level of fertility and birth about the last seven years (Amani, 1998:72). In fact, impact of decreased fertility on enrollment will be delayed essentially, because children do not attend school until six years old (Jones, 1990:75).

In a society where schools do not have sufficient capacity to attract students 5-7 years, sudden and high growth in fertility may be contain a lot of pressure on the capacity of schools, so it causes a dramatic increase in the number of students and in the first stage, leading to an increase in the proportion of students to class and When the total capacity of the school was too it will caused to numerous problems for the educational system and even for the administrative system(Fougstedt, 1975:97).

Mortality status also is an important factor on population trends in education, especially elementary education. The greatest impact of mortality on education lies in children mortality. Reducing infants and children mortality means increasing the required capable population for education. Infant and children mortality trend is an important factor for educational planning (Jones, A 1975:81). In fact, decrease infants and children mortality expands the base of age pyramid and subsequently leads to an increase population in the school-age (Girard, 1975:26).

Probability of survival from birth to seven years is effective in number of enrollments and number of first-year students. For example, if in a country almost all births due to improved health reach to seven years, the number of students enrolled in first-grade class is much more than the country has lagged health (Amani, 1998:72). Status of mortality could even be considered at school-age, although mortality at school-age is generally less than other ages, but there is a considerable risk of death in the case of high mortality, even during this period. Therefore, it should be noted that the promotion of a group of class to a higher rank and class it is not only the result of an effort to learn better and success in exams but the probability of survival from an age to an older age plays an important role in this field (the same source:72).

The effects of immigration on education should be considered as important ones. Immigrations have the strong effects on educational population changes from internal point of view. Most of the immigrations are from village to city or from low-population accumulation to high-population accumulation in which this kind of immigration causes some changes in both areas of educational system (Fougstedt, 1975: 49). The main purpose of the most educational plans is to decrease the unequal amount of city to village in educational system by developing educational facilities in village areas

(with a high speed in cities. One of its results is the loss of predicted educational plantings' and increasing the number of registration in a fix manner and predicted ways of expenditures by the high number of immigration to cities (Jones, 1990: 57). It is expected in the cities that the expensiveness in educational expenditures created in which cause to the great pressure on budgeting, developing schools in cities, increasing of classes' capacities that cause decreasing in the quality of education (Golshani Fumani, 2001, 187).

International immigrations had a little effect on educational process because governments control foreign immigrations completely. Also most of foreign immigrants are those who are in a suitable school age (especially elementary levels). The important effect of international immigration is when it takes place in a whole and abundant manner; it also will affect educational ways in the origin and destination country. Elementary education is one of the aspects which reflect the problems of international circumstances quickly.

It can be said that population growth is one of the three main factors of demography (immigrations, death and birth) in which affects the different aspects of education like educational demand, searching for educational goals, educational expenditures, educational services and....When educational purposes is emphasized by taking the population into consideration like searching for elementary education or the number of percent iterance to the first grade, or when these purposes are considered by taking the number of population proper for education and learning-teaching process into consideration (like increasing of 30% to 60% in the number of passed students from fourth grade to fifth grade). All to all are as reasons for the number of needed age for the school population and this growth of population can be considered as a main factor for getting the purpose of public education (Jones, 1990:30). The growth of the needed age for school population is the main cause of getting the educational purposes in which it is the cause of the population growth especially when the educational coverage is completed. Studies have shown that when the amount of expenditures is recognized, population growth can be enhancing factor of expenditures in order to reach the recognized educational purposes. In fact the growth of population cause to increasing of educational expenditures because the number of new comers is increased so the need for investment can be more felt.

Another important factor which has a direct effect on demographics educational process and is considering as a non-demographics factor, is registration coverage. When only a few amounts of children attend in school, population problem will be considered as a second importance. It can be understood that the effect of population growth is limited on the increasing of students through the effects of strong increasing of the registration (Jones, 1975: 70). This factor has a basic effect on elementary education because having general elementary education is one of the educational goals in most countries (especially on developed countries which do not get to such a goal).

It is clear that by increasing the registration coverage, its effects will be decreased in which when registration coverage is completed, this factor will play as a neutral one. In other word, by literacy contributions in all age levels, registration coverage is completed and the number of illiterate person will be decreased. So, when illiteracy is finished in a country (especially in elementary level), the growth of literate person from one statistics to another will be equal through the growth of the whole needed age for training population (Amani, 2001: 106).

So two mentioned factors such as demographics factors (birth, death and immigration) and coverage level for school have strong effects on elementary educational needs and facilities. Quality factors directly and indirectly from these two factors has also strong effects. These factors are classroom standards, decrease number of students in class and school, increased use of new technologies in which are determined by planners.

3. Research Background

Among all researches about features of students population and its predictions in Iran the following can be mentioned: Zebardast's research(1996) under the title of "Examining the Kurdistan's students growth and educational staff in last 5 years in order to estimate needed manpower for elementary, guidance and secondary schools for the next 5 years" tries to examine and analyze Kurdistan's educational functions from the students growth and educational staff and predicted the number of elementary, guidance and secondary students for the next 5 years except their levels and majors. Be computed the student's population process, progress and falling rates except school dropout or passing for different periods. He uses the compound growth method and regression method and relative survival rate and also uses unique method and the ratio of student to teacher index in order to predict and determine professional manpower index (needed teachers).

Mirzaie & Zarghamie's research(2010) under the title of "Elementary educations demographics changes of country during 1971-2006", tries to examine the elementary students population changes in the country and concluded that in a recent decades, elementary education has a significant demographics changes in which theses population had been increased up to the early decades of 1991 but after that it started to decrease and these changes cause to other changes

in the number of staffs and teachers and institutes and classes in this level (elementary level). All of these presented in the demographics indexes of elementary education in related years. These indexes like student to teacher ratio, students' accumulation in class and institute and also capita expenses for student are improved in 1971 but they lose the needed standards in 1981. Again they started to improve from 1991. Factors of these changes mostly are countries' population changes and educational coverage in which increasing in registration coverage is one of the effective factors up to 1986 in cities and 1996 in villages.

Zarghami (2010), has examined students' evolutions in 2209-2010 school years. And results of his statistics about educational factors show that Iran's education has finished its population growth period and remarkable increase of student population from the early of 1981. He stated that nearly 17/68% from the total population of country has been student population in 2009-2010 and from the total student population; nearly 42/15% of student has studied in elementary levels.

With regard to the importance of the mentioned subject, the present study was done in order to estimate the primary school students' population of East Azerbaijan in the next 5 years so that to facilitate the work of educational planners for manpower planning and designing of the future educational programs for primary school.

4. Research Questions

- 1. How and to what extent the evaluation of East Azerbaijan student population in elementary school has been over the 5 last years?
- 2. How East Azerbaijan primary school student population will be over the next 5 years?
- 3. To what extent Educational spaces needed for Eastern Azerbaijan primary School students will be to the academic year 2015-2016?
- 4. How much will be the required number of teaching staff (teachers) for Azerbaijan primary school students to academic year 2015-2016?

5. Methodology

The purpose of this research is applied one and its data collection method is descriptive – analytical. The statistical population of this study included East Azerbaijan total student population and manpower of primary education. Researches instruments include refer to the State General Department of Education and library study by suing of needed information and data and also to study statistical yearbooks and census results. Research statistical methods are as follows:

Population prediction by using of calculating of survival rate in a particular age, Johnston formula, the mortality rate and immigration of individuals needed to teaching, prediction of school enrollment rate locally and estimate of state required space and teaching staff in the next 5 years, according to provincial standards. During this research, researcher has predicted student population of the course (through calculating of survival rate in a particular age, Johnston formula, the mortality rate and immigration of individuals needed to teaching) in the next 5 years after the study of state elementary school population growth in the last 5 years and he/she has predicted the required space and the teaching staff to students after estimation of enrollment rate and the number of students in the 96-95 school year. The survival rate is obtained by subtracting the total population of a particular age group with a population of the same age group who has died one year of age divided by the total population of the age group.

Table 1. Ratio of student to teacher in education courses according to the provincial standards

Educational courses Ratio of student to teacher according to the provincial standard		
Elementary	17.65	
Guidance	15.17	
Secondary	16.71	

Source: Derived from provincial standard of country development document.

Table 2. Required educational, training and welfare spaces standards in elementary levels

Row	required educational, training and welfare spaces standards	scale
1	theoretical studies classes	2 m
2	empirical studies classes(Laboratory)	4.5 m
3	art classes (playground)	4.5 m
4	library	4.18 m
5	educational activities room	2.57 m
6	gymnasium	1.6 m
7	green space, gardens and tree planting	3.3 m

Source: Derived from publication of management and planning organization, no. 232.

Table 3. The ratio of students to classes during the educational courses according to the provincial standards

educational courses	The ratio of students to classes
elementary	20.37
guidance	26.76
secondary	21.12

Source: Derived from provincial document of education in fourth development plan

It should be explained that application of the provincial standards in estimating the required space and teaching staff in the 2015-2016 school year is so that educational spaces and schools facilities and also educational staff which should be provided per student, has been taken and has been considered the proportion of each student in the 2015-2016 school year.

V Johnston Model:

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 $Eg_{t} = Eg^{-1}_{t-1} + Rg_{t} + Ig_{t}$

Variables of this model are as follow:

T= predicted year

Eg=the number of students in class g

R^g= the rate or proportion of school-age in group a

19= net amount transferred it means the number of students who transferred from other units to the class g

6. Research Findings

The following information is the result of the research questions which listed in the below tables.

1- How and to what extent the evolutions in East Azerbaijan elementary school student population have been during the past 5 years?

Table 4. The number of East Azerbaijan elementary school students in the last 5 years

school year	East Azerbaijan elementary school students		
2008-2009 269349			
2009-2010	269521		
2010-2011	269743		
2011-2012	273849		
2012-2013	329587		

Source: Derived from country's statistical yearbook and East Azerbaijan education statistic.

According to table 4 it is clear that the growth of East Azerbaijan elementary school students' population has been low in recent years and from 2007-2008 to 2010-2011 school years hasn't had much increase. But in 2012-2013 school years the increase has been significant than in previous years and this may be due to adding of six primary bases in the 2012-2013school years.

2- How much the East Azerbaijan elementary school student population will be in the next 5 years?

To answer this question first it is necessary to estimate the elementary students population at different bases separately and then it is calculated the total elementary students population in the next 5 years.

Table 5. The estimation of population of East Azarbaijan first grade students in the 95-96 school years

First grade student population in 2016-2017 school year						
province birthdays in 2010 Rate of survival to one year old population in 2016						
67734	0.896	60689				

Source: derived from statistical yearbook of East Azerbaijan general administration of registration.

According to table 5 among 67734 children born in 2010 years only 0/896 % of them have survived to age of one. Therefore, it is expected that among the children in this age group, only 60,698 people are attend school in the 2016-2017 school year.

Table 6. The estimated population of the second grade students of East Azarbaijan in 95-96 school years

second grade student population in 2016-2017 school year					
province birthdays in 2009 Rate of survival to one year old population in 2016					
67683	90/68	61374			

Source: derived from statistical yearbook of East Azerbaijan general administration of registration.

According to table 6 among 67683 children born in 2009 years only 90/68% of them have survived to age of one. Therefore, it is expected that among the children in this age group, only 61374 people are attend school in the 2016-2017 school year.

Table 7. The estimated population of the third grade students of East Azarbaijan in 2016-2017 school years

third grade student population in 2016-2017 school year					
province birthdays in 2008 Rate of survival to one year old population in 2016					
64752	89/03	57698			

Source: Derived from statistical yearbook of East Azerbaijan general administration of registration.

According to table 7 among 64752 children born in 2008 only 89/03% of them have survived to age of one. Therefore, it is expected that among the children in this age group, only 57698 people are attend school in the 2016-2017 school year.

Table 8. The estimated population of the fourth grade students of East Azarbaijan in 2016-2017 school years

fourth grade student population in 2016-2017 school year					
province birthdays in 2007 Rate of survival to one year old population in 2016					
63156	90/42	57101			

Source: derived from statistical yearbook of East Azerbaijan general administration of registration

According to table 8 among 63156 children born in 2007 only 90/42% of them have survived to age of one. Therefore, it is expected that among the children in this age group, only 57101 people are attend school in the 2016-2017 school year.

Table 9. The estimated population of the fifth grade students of East Azarbaijan in 95-96 school years

fifth grade student population in 2016-2017 school year					
province birthdays in 2006	Rate of survival to one year old	population in 2016			
62689	90/43	56682			

Source: derived from statistical yearbook of East Azerbaijan general administration of registration

According to table 9among 62689 children born in 2006 only 90/43% of them have survived to age of one. Therefore, it is expected that among the children in this age group, only 56682 people are attend school in the 2016-2017 school year.

Table 10. The estimated population of the sixth grade students of East Azarbaijan in 2016-2017 school years

sixth grade student population in 2016-2017 school year					
Pass rate of first-grade	failed third grade of elementary in last year and				
age group in 2011-2012	students who will study at sixth base in 2016-2017	descendants of education in the 2012-2013 school			
school years	school years	years enrolled in second grade			
99/98	55603	23			
total of sixth elementary school students 55626					

Table 11. East Azerbaijan estimated population of the elementary school students in 2016-2017 school years

grade	population		
first grade	60698		
second grade	55626		
third grade	57698		
fourth grade	57101		
fifth grade	56682		
sixth grade	57037		
total : 344833			

To answer the second question it should be said that according to table 11 it is expected that around 344833 students at first to sixth grade in elementary level are studying in the 2016-2017 school year.

Table 12. the leaving and imported immigrants into the province during 1996-2006

Province name		the entered immigrants	the leavin	the leaving immigrants		the net ratio of migration to province population (percent)		net migration
Hame	numbe	er percentage	number	percentage				
whole of coun	try	4774046	100	4774	046	100	0	0
East Azerbaijan		158424	3/32	3021	57	6/33	-3/99	-143733

Source: Derived from Ali Ardehaee & Ali Hosseini's article by the title of Iran's internal immigrations process except province during 1996-2006.

Table 13. origin and target of immigrants according to the latest immigration between 2006-2011

origin of immigration	target of immigration			
	city village			
city	3259040	755546		
village	655251	36870		
abroad	78789	23730		
not declared	309006	84596		

Source: derived from the results of the general census of population and housing in 2011.

Between 1996 and 2006 a total of 4,774,041 people have been replaced in the provinces of which1438406 people have arrived in Tehran and are living there. After Tehran, most of immigrants respectively have been those who entered Khorasan Razavi with 305305 people and Isfahan with 299943 people and Kohkiluyeh Boyer Ahmad, with 28,647 people has had the lowest number of immigrants. The highest number of total immigrants to Tehran has been from Eastern Azerbaijan because 172,629 people have migrated from the mentioned province to Tehran during 10 years from 1996-2006 which constitute 12% of total immigrants who arrived in Tehran. Also this study shows that majority of the migrated people of East Azerbaijan have migrated to Tehran so that a total of 302,157 people during the 10 years which have left his residence in East Azerbaijan 57.31% to Tehran and the rest (42.87%) have migrated to the other 29 province (Ardhaee & Rad, 2009).

Among these provinces, Tehran with 615,027 people has had the highest rate of net migration and Qazvin with 1824 people the lowest net migration while it is negative the net migration rate in the other 18 province. Eastern Azerbaijan has been one of the seven provinces which have sent immigrants to different parts of country more than other provinces so that its digit has been about 143733 people (Ardhaee & Rad, 2009).

In terms of gender and age groups, the study of immigrants shows that the number of immigrants has increased in both sexes. The number of immigrants in the 1996-2006 in the 5-9 and 10-14 age groups decreased compared to the previous period and it has increased after the 15-19 years age groups and the highest increase especially has been in boys and men in the 20-24 and 25-29 year age groups (the same source, p.6). Therefore it can be said that likely the factor of migration has not significant impact on the population of 6-12 years of East Azerbaijan in the next five years so it is not involved in the estimation of student population.

3- How much will be the required educational spaces of East Azerbaijan elementary school students in year 95-962

Table 14. the total estimated of the required educational, training and welfare spaces of East Azerbaijan elementary schools according to modern standards in 2016

Row	required educational, training and welfare spaces standards	scale (per student)
1	theoretical studies classes	686666m
2	empirical studies classes(Laboratory)	1551748/5 m
3	art classes (playground)	1551748/5 m
4	library	1441401/9 m
5	educational activities room	886220/81 m
6	gymnasium	551732/8 m
7	green space, gardens and tree planting	1137948/9 m

Table 15. Prediction of the required educational spaces of East Azerbaijan elementary schools in 2016-2017

capitation standard of the required educational spaces in	the total number of East Azerbaijan elementary schools		
elementary level(based on sqm)	students in 2016-2017 school year		
3/51	344833		
estimation of the required educational space of East Azerbaijan elementary schools in 2016-2017 school year			
1210363/8 Sqm			

Source: estimated according to provincial standards extracted country's development program

According to table 15 East Azerbaijan educational space should be increase to the amount of the predicted student population in the future years so that it can satisfy the students' needs to 1210363/8 Sqm in 2016-2017 school year.

4- How many would be the number of the required teaching staff (teachers) of East Azerbaijan elementary schools students in 2016-2017 school years?

Table 16. Prediction of the number of teachers needed in East Azerbaijan elementary level in 2016-2017 school years with regard to predicted student population

sixth grade student population in 2016-2017 school year				
number of students in	student to teacher ratio	number of teachers needed in province	number of the existing teachers	
2016-2017 school years	according to provincial standard	elementary level in 95-96 school year	in 2012-2013 school years	
344833 17/65		19863	14087	

According to table 16 it should be noted that if province education wants to make comply student to teacher ratio with provincial standard, all qualified elementary school teachers should be accordance with the predicted number of teachers required in the above table so that the lack of 5785 qualified teachers be resolved.

Table 17. Comparison of current elementary school students with the number of students in years 2016-2017

number of elementary school students in 2012-2013 school years	number of students in 2016-2017 school years			
329587	350581			
rate of population increases 4/63%				

7. Conclusion

According to the data resulting from research, in comparison with 2012-2013 school years the number of East Azerbaijan elementary school students will be increased by 4/63 percent in 2016-2017 school years and therefore required number of classrooms, teachers, educational areas and office personnel which is needed at this level will increase in the next 5 years so It is necessary that the provincial education to design its future plans in order to overcome deficiencies and satisfy the future needs so that increasing student population in the future, doesn't lead to the low quality of education and lack of educational spaces in cities and villages doesn't lead to loss of equal educational opportunity.

Capita for elementary school students also schools current and construction budgets should be in accordance with increasing of student population in the future years to province elementary education doesn't face with crisis and lack of quality. Meanwhile it should be noted that the province elementary schools should be expanded accordance with the mentioned standards in table and organize their spaces including educational, administrative, cultural services and recreational spaces according to the codified standards listed in the below table.

Areas of Primary Education According to the Regulations, Technical Standards and Engineering

Number of classes	Type of space	Office of the Director	Office of the Assistant	Teachers Room	Finance	Total	Capitation
3	Number	1		1	1	3	0/37
	space	15		15	15	45	
6	Number	1	1	1	1	4	0/25
	space	15	15	15	15	60	
9	Number	1	1	2	1	5	0/20
	space	15	15	30	15	75	
12	Number	1	1	2	1	5	0/16
12	space	15	15	30	18	78	
15	Number	1	1	3	1	6	0/13
	space	18	15	45	18	81	0/13
18	Number	1	1	3	1	6	0/13
	space	18	15	45	22	100	0/13
21	Number	1	1	4	1	7	0/14
	space	22	18	60	22	122	

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