# Sustainable Development and Demographics a Comparative Study between Urban and Rural Population According to Population Estimates for the Year 2021 

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#### Abstract

The population study is one of the important studies which is depended on a lot in planning and decision-making, so in this research, estimates of Iraq's population for the year 2021 were used for the urban and rural regions and a comparison was made between the results of the two regions through the use of some age categories indicators such as the arithmetic mean of ages, median age, dependency ratio, the youth ratio, and aging ratio, has also been used qualitative composition indicators were used, such as the sex ratio at birth, the sex ratio to the total population, the proportion of males and the proportion of females, and The proportion of the population under the age of thirty- that category had a great role in sustainable development. The Secretariat's guide of the United Nations was used to check the accuracy of the data. Finally, using the urban and rural population pyramid to determine the population pattern.

In this research, conclusionsare shown that youth of the Iraqi society, and more than two-thirds of the Iraqi society is under the age of thirty, and accordingly, the state must employ its capabilities in order to provide the requirements of a decent life for this category, especially since most of the conflicts that occur in the world were from countries have such category. The conclusions also showed the accuracy of urban data and its reliability in the areas of planning and decision-making, while showing the


inaccuracy of rural data, according to the United Nations secretariat's guide.

## I. Introduction:

Population censuses are the main tributary to providing researchers with population data that is very reliable to make appropriate decisions regarding planning, education and health. So, in this research, estimates of Iraq's population for the year 2021 were used for urban and rural areas to make a comparison between the two regions using indicators of sex and age structure, and knowledge of the pattern of Iraqi society, which are of interest to the state to develop future plans, as well as to know the number of the population under the age of thirty due to the prominent and effective role of this group in the areas of development, and the United Nations Secretariat's guide was used to classify the accuracy of the data.

## II. Theoretical Side

## II.I Age Structure ${ }^{3,4,5}$ :

The age structure is one of the most important indicators used in the demography, through which the productive power of the population is identified and whether the population is young or old, in addition to many other uses that are included in the field of planning, health, agriculture, and others. The age structure affects the size of the labor force, consumption pattern, and the population's economic and social needs. Its results are important indicators when charting economic and social development because of their impact on development opportunities and play a major role in security and governance challenges.

Through the age structure of the population, we can have a conception of the shape of society, where the decrease in the number of children under the age of fifteen and the increase in the number of young of working age leads to a reduction in the dependency ratio and opens the door to economic development for the entry of a large number of the population into the labor force, and this Economic growth cannot take place without drawing up real economic policies inside the country that guarantee the entry of this number of young people to the labor market through the development of the education system and the eradication of illiteracy that Iraqi society suffers from as a result of a large percentage of children and youth dropping out of school at an early age. The state should involve young people in serious training courses to provide them with real professional skills that will allow them to enter the labor market. Also, caring for the youth segment under the age of thirty by providing them with job opportunities and ensuring their education with good
education closes the door to internal conflicts and civil wars that may arise within the country, as it is approximately $80 \%$ of the conflicts and civil strife that occurred in the world since the seventies of the last century to At the end of the second millennium, $60 \%$ of the population was under the age of thirty in societies.

Society can be divided according to age into four age structures which are:

1. The very young age structure: in which two-thirds of the population or more are under 30 years of age.
2. Age structure of youth: in which more than $60 \%$ of the population is under the age of 30 .
3. The transitional age structure: where $(45-60)$ percent of the population is under the age of 30 .
4. Mature age structure: less than $45 \%$ of the population is under the age of 30 and up to a quarter of the population is over the age of 60 .

## II.II Numerical indicators of the age structure ${ }^{1}$ :

The age structure has many important indicators that are relied upon to determine whether the society is young or old, and these indicators include: the arithmetic mean of ages, median age, dependency ratio, youth ratio, and aging ratio.
i. Arithmetic Mean of Ages:It is the weighted arithmetic mean of ages by population.
$\bar{X}=\frac{\sum_{i=1}^{n} x_{i} P_{i}}{P_{i}}$
where:
$x_{i}$ : Center of age categoryi.
$P_{i}$ : The number of people in theage categoryi.
ii. Median Age:It is the age that divides the total population into two equal parts so that half of the population exceeds the median age and the other half is less than it. The increase in the median age has many reasons, the most important of which is the decrease in mortality rates. According to the median age, societies with a high median age (greater than 30 years) are described as aged societies, societies with a low median age (less than 25 years) are described as young societies, and societies with a moderate median age (between 25 and 30 years) are described as societies Mature.
$M e=L m+\frac{\frac{P}{2}-C P}{P m} \times c$
Where:
Me: Median age.
Lm: Minimum of the median category.
$P$ : The population.

Pm: The frequency of the median category.
$C P$ : The previous cumulative frequency of the median category.
$c$ : The length of the median category.
iii. Dependency Ratio:The dependency ratio relates the number of children ( $0-14$ years old) plus older persons (65 years or over) to the working-age population (15-64 years old)
$D R=\frac{P_{0-14}+P_{65-}}{P_{15-64}} \times 100 \%$
Where:
$D R$ : dependency ratio.
$P_{0-14}$ : The number of young people under 15 years of age.
$P_{65-}$ : The number ofolder persons ( 65 years or over).
$P_{15-64}$ : The number of people of working age (i.e. 15-64).
$D R_{\text {min }}=\frac{P_{0-14}}{P_{15-64}} \times 100 \%$
Where:
$D R_{\min }$ : The youth dependency ratio.
$P_{0-14}$ : The number of young people under 15 years of age.
$P_{15-64}$ : The number of people of working age (i.e. 15-64).
$D R_{\max }=\frac{P_{65-}}{P_{15-64}} \times 100 \%$
Where:
$D R_{\max }$ : The old-age dependency ratio.
$P_{65-}$ : The number of older persons ( 65 years or over).
$P_{15-64}$ : The number of people of working age (i.e. 15-64).
iv. Youth Ratio:It represents the ratio of the population under 15 years of age to the total population, and it is a measure of the increase or decrease in the rates of reproduction and a reflection of the population growth rate.
$Y R=\frac{P_{0-14}}{P} \times 100 \%$
Where:
$Y R$ : Youth Ratio (children under 15 years old).
$P_{0-14}$ : The number of young people under 15 years of age.
$P$ : The population.
v. Aging Ratio: It represents the ratio of the population out of working age aged 65 years and over, and the increase of this ratio indicates an increase in the aging or hierarchy of society.
$O R=\frac{P_{65-}}{P} \times 100 \%$

Where:
OR: The agingRatio.
$P_{65-}$ : The number of older persons (65 years or over).
$P$ : The population.

## II.IIISex Structure ${ }^{\mathbf{2}}$ :

Sex structure is one of the most important demographic indicators used in planning.It measures the ratio between the numbers of males per hundred females.This ratio at birth is 105 males to 100 females and decreases with age so that every ten centenarians include 8 women. The sex ratio is a demographic criterion used by statisticians to ensure the accuracy of the results of population censuses, as the data show that the ratio at birth is in the range of $102 \%-107 \%$ and does not change except within a few limits, and it is variable as it begins with the increase of males over females in the first years of life and then decreases due to the difference Mortality rates for both sexes, and in the middle age categories approach moderation, to decline in the old years due to the increase in the number of females over males due to deaths as well as internal and external migrations and wars.

The most important indicators of the sexstructure of the population:
$S R_{0}=\frac{M P_{0-1}}{F P_{0-1}} \times 100 \%$
Where:
$\mathrm{SR}_{0}$ : Sex ratio at birth.
$\mathrm{MP}_{0-1}$ : The number of male children under 1 year.
$\mathrm{FP}_{0-1}$ : The number of female children under 1 year.
$S R_{x}=\frac{M P_{x}}{F P_{x}} \times 100 \%$
Where:
$S R_{x}$ : Sex ratio at age x to $\mathrm{x}+4$.
$M P_{x}$ : The number of males at age x to $\mathrm{x}+4$.
$F P_{x}$ : The number of females at age x to $\mathrm{x}+4$.
$S R=\frac{M P}{F P} \times 100 \%$
Where:
$S R$ : The sex ratio of the total population.
$M P$ : The number of males for the total population.
$F P$ : The number of females for the total population.
$F R=\frac{F P}{P} \times 100 \%$
Where:
$F R$ : The female ratio.
$F P$ : The number of females.
$P$ : The population.
$M R=\frac{M P}{P} \times 100 \%$
Where:
$M R$ : The maleratio.
$M P$ : The number of males.
$P$ : The population.

## II.IV Age Ratio ${ }^{2}$ :

It is the ratio of the number of people in a certain age category to the average number of people in the two neighboring age categories (previous and subsequent) and it is calculated for all categories except for the first and last for both sexes. It is calculated as follows:
$A R_{x}=\frac{P_{x}}{\frac{\left(P_{x-5}+P_{x+5}\right)}{2}} \times 100 \%$
Where:
$A R_{x}$ : the age ratioat age x .
$P_{x}$ : the number of people at age x .
$P_{x-5}$ : the number of people in the age x-5.
$P_{x+5}$ : the number of people in the age $x+5$.

## II.VUN Age - Sex Accuracy Index ${ }^{5}$ :

It is one of the measures used in evaluating the data and it depends on three indicators: gender ratio, age ratio for males, and age ratio for females, it is calculated as follows:
$A S A I=3 S R S+A R S_{m}+A R S_{f}$
Where:
ASAI: Age- Sex Accuracy Index.
SRS: Average of the absolute deviations between each of two categories of sex ratio.
$A R S_{m}$ : Average absolute deviations of the age ratio for males from 100.
$A R S_{f}$ : Average absolute deviations of the age ratio for females from 100.
According to this scale, the accuracy of the data is according to the following classifications:

| Indicator value | Data quality level |
| :---: | :--- |
| Less than 20 | high accuracy and can be trusted |
| $20-40$ | medium accuracy |
| More than 40 | not very accurate and cannot be trusted |

## II. VI General Fertility Rate:

It is the ratio of total live births to the number of females of childbearing age.
$G F R=\frac{B}{W_{15-45}} \times k$
Where:
$G F R$ : general fertility rate.
$B$ : the number of live births.
$W_{15-45}$ : Number of females of childbearing age.
$k$ : a constant with a value of 1000 or 100000 at most.

## II. VIIPopulation pyramid:

A population pyramid is a pyramid-shaped diagram used to represent the sex and age distribution of the population. There are three types of populations that we can observe through the shape of the population pyramid:

1. Expansive population pyramid.
2. Stationary, or near stationary, population pyramid.
3. Constrictive population pyramid.

The society which has the expansive pyramid characterizes a high percentage of the population under the age of 20 years, where this category constitutes $40-50 \%$, and a decrease in the percentage of the population over the age of 64 years, where this category constitutes less than $10 \%$.

As for a society in which the population pattern is moderate, it is characterized by high birth rates and low death rates, an increase in the proportion of the population of working age (20-64) years of the total population, and the population pyramid of this society is characterized by a relatively narrow base and high vertical sides.

As for a society in which the population pattern is decreasing (pyramid), it is characterized by a decrease in the proportion of the young population under the age of 20 years, and an increase in the proportion of the population in the high age 60 years and over, and is characterized by a small base due to low births and a wide peak of low death rates as a result of economic, health and social development with Widening at the center of the pyramid, and these societies tend to age, as the average lifespan of individuals increases, especially in advanced societies.

## III. The application:

This research was based on the data of population estimates for the year 2021 for the urban and rural regions, which were obtained from the Ministry of Planning / Central Statistical Organization. Where the population indicators that were previously discussed for both regions (urban and rural) were applied, according to appendix (1) the followingis the most important finding of the research:

We note from appendix (1) that the cumulative number of males under the age of 15 is $5,694,938$, while the cumulative number of females is $5,379,622$ out of the total urban population of $28,779,201$, where this category constitutes $38 \%$, or more than one-third of the urban population within the category of children under five Ten and this affects the youth of society, as the cumulative number of children under two years of age reached $1,562,422$, and this requires the state to be prepared for real in its five-year plans and to allocate a large part of its resources in the field of education and to build schools to accommodate these numbers.

While the cumulative number of males under the age of 30 reached $9,778,990$ compared to $9,257,659$ for females of the total urban population, meaning that more than two-thirds of the urban population are young people under the age of thirty, which have an effective role in the development if the state is able to make the best use of it by providing Real education and creating job opportunities that guarantee them a decent life, especially since this group is the most effective and motivated if left without serious care.

As for the population aged 65 years and over, it reached 960,001 , and this group constituted $3 \%$, which is a small percentage compared to the size of the urban population.

Table (1) Sex and age ratio of urban population by five-year age groups for the year 2021

| Age <br> categories | Male | Female | Total | sex ratio | Age ratio <br> for malesAge ratio <br> for <br> females | Age ratio <br> for Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $0-4$ | $2,075,034$ | $1,963,130$ | $4,038,164$ | 106 | - | - | - |
| $5-9$ | $1,909,774$ | $1,817,261$ | $3,727,035$ | 105 | 101 | 102 | 101 |
| $10-14$ | $1,710,130$ | $1,599,231$ | $3,309,361$ | 107 | 99 | 97 | 98 |
| $15-19$ | $1,541,120$ | $1,471,953$ | $3,013,073$ | 105 | 99 | 101 | 100 |
| $20-24$ | $1,412,094$ | $1,320,158$ | $2,732,252$ | 107 | 106 | 103 | 104 |
| $25-29$ | $1,130,838$ | $1,085,926$ | $2,216,764$ | 104 | 94 | 94 | 94 |
| $30-34$ | 986,385 | 996,744 | $1,983,129$ | 99 | 100 | 101 | 101 |
| $35-39$ | 840,611 | 878,473 | $1,719,084$ | 96 | 95 | 98 | 96 |
| $40-44$ | 787,620 | 804,310 | $1,591,930$ | 98 | 109 | 107 | 108 |
| $45-49$ | 606,217 | 619,577 | $1,225,794$ | 98 | 104 | 98 | 101 |
| $50-54$ | 379,608 | 456,438 | 836,046 | 83 | 75 | 87 | 81 |
| $55-59$ | 412,861 | 427,692 | 840,553 | 97 | 125 | 112 | 118 |
| $60-64$ | 279,665 | 306,350 | 586,015 | 91 | 93 | 98 | 95 |
| $65-69$ | 190,097 | 197,599 | 387,696 | 96 | 94 | 92 | 93 |
| $70-74$ | 124,612 | 125,204 | 249,816 | 100 | 98 | 91 | 94 |
| $75-79$ | 65,093 | 77,148 | 142,241 | 84 | 66 | 66 | 66 |
| $80-$ | 72,326 | 107,922 | 180,248 | 67 | - | - | - |
| Total | $14,524,085$ | $14,255,116$ | $28,779,201$ | 102 |  |  |  |

Using the numbered equations $(8,9,10,13)$ we note from Table (1) that the gender ratio was high in the first groups of the population as a result of the increase in the number of males versus females, as it ranged between (104-107) and this percentage began to decline in age groups after the age of thirty as a result of the increase in the number of females versus males due to the increase in male deaths in these age groups or because of wars and migrations. The maximum decrease in
the sex ratio reached after the age of eighty, where every hundred female correspond to 67 males, meaning that every ten urban centenarians, among them approximately 7 females.

We also note the clear fluctuation in the age ratio for males and females and for the total population. Perhaps one of the reasons for this fluctuation is the inaccuracy in recording real population data.

When applying the data accuracy index proposed by the United Nations (Equation No. 14), we find that this evidence has reached 33.6, and this means that the estimated data is accurate to some extent and its results can be relied upon.

Table (2) some indicators of the age structure by sex of the urban population in Iraq for the year 2021

| Index | Male | Female | Total |
| :---: | :---: | :---: | :---: |
| Arithmetic Mean | 23.7 | 24.7 | 24.1 |
| Median age | 19.4 | 20.4 | 20.1 |
| Dependency ratio | $72 \%$ |  |  |
| Minimum Dependency Ratio | $66 \%$ |  |  |
| Great Dependency Ratio | $6 \%$ |  |  |
| Youth ratio | $38 \%$ |  |  |
| Old ratio | $3 \%$ |  |  |
| Fertility rate | $11.4 \%$ |  |  |
| Female ratio | $49.5 \%$ |  |  |
| Male ratio | $50.5 \%$ |  |  |

Through Table (2)and by using the numbered equations (1-7, 11,12,15), we note that the arithmetic means of the ages of males was 23.7 years, while that of females reached 24.7 years, and this reflects the higher ages of females than males, while the median age for males was 19.4 and for females 20.4, which is evidence of the youthfulness of the urban community, and the value of the dependency ratio was $72 \%$ This means that the percentage of children and the elderly is 72 for every hundred people of working age, and the percentage of bullying is $38 \%$, which is a high percentage indicating that the urban society is a young society, while the percentage of females in the urban area reached $49.5 \%$ compared to $50.5 \%$ for males.


## $\operatorname{Graph}(1)$ the population pyramid of urban Iraq according to the estimates of the year 2021

We note through Figure (1) the widening of the base of the pyramid as a result of the increase in the number of births and children under the age of five with a gradual, balanced decrease on both sides of the pyramid. From the shape of the population pyramid, we note that the urban society is a young society.


Graph(2) The age distribution of urban Iraq according to the estimates for the year 2021

Through $\operatorname{Graph}(2)$ we notice a gradual decrease in the population numbers according to age, where the highest level is in the first age category( $0-4$ years) and continues to decrease until it reaches its lowest level in the categoryofequal and greater than 75.

According toAppendix (2) we note that the number of males under the age of 15 years reached $2,890,919$, while the number of females reached $2,702,917$ out of the total rural population of
$12,411,457$, and this category constitutes $45 \%$ of the rural population, and this reflects the youthfulness of the community.

The cumulative number of males under 30 years of age reached $4,616,226$ compared to 4,312,973 females of the total rural population, meaning that more than $71 \%$ of the rural population are young people under the age of thirty, which have an active role in development.

As for the population aged 65 years and over, it reached 306,707, and this group constituted $2 \%$, which is a small percentage compared to the size of the rural population.

Table (3) the percentage of gender, age and cumulative frequency of the rural population according to the five-year age groups for the year 2021

| Age <br> categories | Male | Female | Total | sex ratio | Age ratio <br> for males | Age ratio <br> for females | Age ratio <br> for Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $4-0$ | $1,027,555$ | 977,906 | $2,005,461$ | 105 | - | - | - |
| $9-5$ | 985,748 | 908,480 | $1,894,228$ | 109 | 103 | 101 | 102 |
| $14-10$ | 877,616 | 816,531 | $1,694,147$ | 107 | 102 | 103 | 103 |
| $15-15$ | 729,376 | 673,284 | $1,402,660$ | 108 | 101 | 101 | 101 |
| $24-20$ | 571,207 | 510,218 | $1,081,425$ | 112 | 99 | 93 | 96 |
| $29-25$ | 424,724 | 426,554 | 851,278 | 100 | 90 | 93 | 91 |
| $34-30$ | 375,725 | 404,965 | 780,690 | 93 | 101 | 105 | 103 |
| $39-35$ | 320,390 | 345,571 | 665,961 | 93 | 94 | 97 | 96 |
| $44-40$ | 307,193 | 305,131 | 612,324 | 101 | 117 | 109 | 113 |
| $49-45$ | 202,885 | 213,544 | 416,429 | 95 | 100 | 96 | 98 |
| $54-50$ | 97,458 | 137,649 | 235,107 | 71 | 59 | 78 | 69 |
| $59-55$ | 129,479 | 139,858 | 269,337 | 93 | 135 | 117 | 125 |
| $64-60$ | 93,831 | 101,872 | 195,703 | 92 | 101 | 103 | 102 |
| $69-65$ | 55,766 | 58,526 | 114,292 | 95 | 86 | 85 | 85 |
| $74-70$ | 35,778 | 36,213 | 71,991 | 99 | 95 | 87 | 91 |
| $79-75$ | 19,395 | 24,658 | 44,053 | 79 | 57 | 61 | 59 |
| -80 | 32,268 | 44,103 | 76,371 | 73 | - | - | - |
| Total | $\mathbf{6 , 2 8 6 , 3 9 4}$ | $\mathbf{6 , 1 2 5 , 0 6 3}$ | $\mathbf{1 2 , 4 1 1 , 4 5 7}$ |  |  |  |  |

Using the numbered equations $(8,9,10,13)$ we note from Table (3) that the gender ratio was high in the first groups of the population as a result of the increase in the number of males versus females, as it ranged between (105-112) and this percentage began to fluctuate in the later age groups, as the maximum decrease in the percentage of gender reached after the age of eighty, as it corresponds to every hundreds of the females, 73 are males, meaning that every ten centenarians in the countryside, including approximately 7 females.

We also note the clear fluctuation in the age ratio for males and females and for the total population. Perhaps one of the reasons for this fluctuation is the inaccuracy in population estimates.

When applying the data accuracy index proposed by the United Nations (Equation No. 14), we find that the value of the evidence has reached 44.6 , which means that rural data are inaccurate and their results cannot be relied upon.

Table (4) Some indicators of the age structure by sex of the rural population in Iraq for the
year 2021

| Index | Male | Female | Total |
| :---: | :---: | :---: | :---: |
| Arithmetic Mean | 20.8 | 22.0 | 21.4 |
| Median age | 17.6 | 18.5 | 18.4 |
| Dependency ratio | $91 \%$ |  |  |
| Minimum Dependency Ratio | $86 \%$ |  |  |
| Great Dependency Ratio | $5 \%$ |  |  |
| Youth ratio | $45 \%$ |  |  |
| Old ratio | $2 \%$ |  |  |
| Fertility rate | $13.3 \%$ |  |  |
| Female ratio | 0.49 |  |  |
| Male ratio | 0.51 |  |  |

Through Table (4) and by using the numbered equations (1-7, 11,12,15), we note that the arithmetic means of male ages was 20.8 years, while for females it was 22 years, and this reflects the higher age of females than males, while the median age for males was 17.6 and for females 18.5. This reflects that the rural community is a young society, and the value of the dependency ratio is 91 This reflects that the percentage of children and the elderly is 91 for every hundred people of working age, and the percentage of bullying reached $45 \%$, which is a high percentage
indicating that the rural community is a young society, while the percentage of females in the rural area reached $49 \%$ compared to $51 \%$ for males.


Graph(3) The population pyramid of rural Iraq according to the estimates for the year 2021

We note in graph (3) the widening of the base of the pyramid as a result of the increase in the number of births and children under the age of five with a gradual, balanced decrease on both sides of the pyramid. From the shape of the population pyramid, we note that the rural community is a young society.


Graph(4) The age distribution in the countryside of Iraq according to the estimates for the year 2021

Through Figure (4), we notice a gradual decrease in population numbers according to age, where the highest level is in the first age category ( $0-4$ years) and continues to decrease until it reaches its lowest level in the category of 75 and more.

Table (5) Comparison of urban and rural results in Iraq for the year 2021

| Index | Urban |  |  | Rural |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Arithmetic Mean | 23.7 | 24.7 | 24.1 | 20.8 | 22.0 | 21.4 |
| median age | 19.4 | 20.4 | 20.1 | 17.6 | 18.5 | 18.4 |
| Dependency ratio | $73 \%$ | $70 \%$ | $72 \%$ | $93 \%$ | $88 \%$ | $91 \%$ |
| Maximum Dependency Ratio | $68 \%$ | $64 \%$ | $66 \%$ | $89 \%$ | $83 \%$ | $86 \%$ |
| Minimum Dependency Ratio | $5 \%$ | $6 \%$ | $6 \%$ | $4 \%$ | $5 \%$ | $5 \%$ |
| Youth ratio | $39 \%$ | $38 \%$ | $38 \%$ | $46 \%$ | $44 \%$ | $45 \%$ |
| Old ratio | $3 \%$ | $4 \%$ | $3 \%$ | $2 \%$ | $3 \%$ | $2 \%$ |
| Fertility rate | 0.114 |  |  |  |  | 0.133 |
| Male ratio | 0.505 |  |  |  |  |  |
| Female ratio | 0.495 |  |  |  |  | 0.494 |

We note from Table (5) when comparing the results of urban and rural residents that the arithmetic means and the median age of the urban area is higher than it is in the rural area, and this may be due to the improvement of the health and service reality in the urban than in the countryside. While the dependency ratio and the percentage of bullying in the countryside were higher, as a result of the higher rate of births in the countryside than in the urban areas. While the rate of aging in urban areas was higher as a result of the increase in the proportion of the elderly in urban areas than in the countryside, and this may be due to the improvement in the service and health reality in urban areas.

Table (6) Percentages of the three age groups from the total population

| Age <br> category | Urban |  |  | Rural |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| $0-29$ | $24 \%$ | $22 \%$ | $46 \%$ | $11.2 \%$ | $10.5 \%$ | $22 \%$ | $35 \%$ | $33 \%$ | $68 \%$ |
| $30-64$ | $10 \%$ | $11 \%$ | $21 \%$ | $4 \%$ | $4 \%$ | $8 \%$ | $14 \%$ | $15 \%$ | $29 \%$ |


| more <br> than 65 | $1 \%$ | $1 \%$ | $2 \%$ | $0.3 \%$ | $0.4 \%$ | $1 \%$ | $1 \%$ | $2 \%$ | $3 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | $35 \%$ | $35 \%$ | $70 \%$ | $15 \%$ | $15 \%$ | $30 \%$ | $51 \%$ | $49 \%$ | $100 \%$ |

We note from Table (6) that the percentage of males who are less than 30 years old in urban areas has reached $24 \%$ of the total population, while the percentage of females has reached $22 \%$, which is a high percentage compared to what is found in the countryside due to the concentration of the majority of the population in cities and migration from rural areas. Where the ratio reached $11.2 \%$ for males compared to $10.5 \%$ for females, and in total, the percentage of the population under the age of thirty reached $68 \%$ of the total population, which is a high percentage that can be relied upon for the development of the country, especially if this segment of the population is successfully employed and the correct means of education are provided. Many conflicts occur as a result of the rush of young people (from 17-29 years old) due to the lack of adequate and appropriate living conditions for a free and dignified life for them.

Table (7): Percentages of the three age groups from the region to which they belong

| Age <br> category | Urban |  |  | Rural |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| $0-29$ | $\% 34$ | $\% 32$ | $\% 66$ | $\% 37$ | $\% 35$ | $\% 72$ |
| $30-64$ | $\% 15$ | $\% 16$ | $\% 31$ | $\% 12.3$ | $\% 13.3$ | $\% 25.6$ |
| more than <br> 65 | $\% 2$ | $\% 2$ | $\% 3$ | $\% 1$ | $1 \%$ | $\% 2$ |
| Total | $\% 51$ | $\% 49.6$ | $\% 100$ | $\% 51$ | $\% 49$ | $\% 100$ |

We note from Table (7) that the percentage of males who are less than 30 years old reached $34 \%$ of the urban population compared to $37 \%$ in the countryside of the same age, while females in urban areas $32 \%$ compared to $35 \%$ in the countryside as a result of the large number of births in the countryside compared to the population of In urban areas, while we find that with advanced ages, the percentages increase in the urban compared to the countryside as a result of the improvement in the health situation in the cities compared to the countryside.

And based on the results of tables (8 and 9), governments should pay attention to the youth segment of the population by providing means of education, health and other recreational activities
such as sports, arts and music to unload their energies and invest them in the right investment to keep pace with the wheel of development and progress, especially since the most conflicts and conflicts in the world are the result of disruption and neglect of the energies of This important segment of the population and the lack of proper utilization of their energies in the areas of human development.

## IV. Conclusions:

The research reached a number of conclusions, the most important of which is:

1. The urban and rural populations are characterized by a young society
2. More than two-thirds of the Iraqi population is young people under the age of thirty, which have a prominent and effective role in the areas of sustainable development.
3. The rural data is not accurate enough to be fully relied upon to make appropriate decisions in the areas of planning,
And one of the most important recommendations of the research is the need to pay attention to the youth category, and the possibility of exploiting them towards human sustainability and economic development of the country, as they are the main pillar for building a sustainable economic power, especially since many statistics indicate that more than $80 \%$ of the conflicts that occurred around the world were from societies with the majority of the population of them young.

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## Appendix

## Appendix (1) Estimates of the urban population in Iraq and the cumulative frequency by sex

 and single age categories for the year 2021| Age | Male | Female | Total | $F_{i}$ Male | $\boldsymbol{F}_{\boldsymbol{i}}$ Female | $F_{i}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 379,691 | 368,200 | 747,891 | 379,691 | 368,200 | 747,891 |
| 1 | 422,387 | 392,144 | 814,531 | 802,078 | 760,344 | 1,562,422 |
| 2 | 427,914 | 404,259 | 832,173 | 1,229,992 | 1,164,603 | 2,394,595 |
| 3 | 433,507 | 401,603 | 835,110 | 1,663,499 | 1,566,206 | 3,229,705 |
| 4 | 411,535 | 396,924 | 808,459 | 2,075,034 | 1,963,130 | 4,038,164 |
| 5 | 400,189 | 380,339 | 780,528 | 2,475,223 | 2,343,469 | 4,818,692 |
| 6 | 397,860 | 382,307 | 780,167 | 2,873,083 | 2,725,776 | 5,598,859 |
| 7 | 385,546 | 369,980 | 755,526 | 3,258,629 | 3,095,756 | 6,354,385 |
| 8 | 371,685 | 353,126 | 724,811 | 3,630,314 | 3,448,882 | 7,079,196 |
| 9 | 354,494 | 331,509 | 686,003 | 3,984,808 | 3,780,391 | 7,765,199 |
| 10 | 344,466 | 327,849 | 672,315 | 4,329,274 | 4,108,240 | 8,437,514 |
| 11 | 358,042 | 326,631 | 684,673 | 4,687,316 | 4,434,871 | 9,122,187 |
| 12 | 366,557 | 344,486 | 711,043 | 5,053,873 | 4,779,357 | 9,833,230 |
| 13 | 324,551 | 310,194 | 634,745 | 5,378,424 | 5,089,551 | 10,467,975 |
| 14 | 316,514 | 290,071 | 606,585 | 5,694,938 | 5,379,622 | 11,074,560 |
| 15 | 325,979 | 308,548 | 634,527 | 6,020,917 | 5,688,170 | 11,709,087 |
| 16 | 307,073 | 297,069 | 604,142 | 6,327,990 | 5,985,239 | 12,313,229 |
| 17 | 298,328 | 283,444 | 581,772 | 6,626,318 | 6,268,683 | 12,895,001 |
| 18 | 312,280 | 297,515 | 609,795 | 6,938,598 | 6,566,198 | 13,504,796 |
| 19 | 297,460 | 285,377 | 582,837 | 7,236,058 | 6,851,575 | 14,087,633 |
| 20 | 290,211 | 274,397 | 564,608 | 7,526,269 | 7,125,972 | 14,652,241 |
| 21 | 283,576 | 257,913 | 541,489 | 7,809,845 | 7,383,885 | 15,193,730 |
| 22 | 310,097 | 289,163 | 599,260 | 8,119,942 | 7,673,048 | 15,792,990 |
| 23 | 276,418 | 258,192 | 534,610 | 8,396,360 | 7,931,240 | 16,327,600 |
| 24 | 251,792 | 240,493 | 492,285 | 8,648,152 | 8,171,733 | 16,819,885 |


| Age | Male | Female | Total | $\boldsymbol{F}_{\boldsymbol{i}}$ Male | $\boldsymbol{F}_{\boldsymbol{i}}$ Female | $\boldsymbol{F}_{\boldsymbol{i}}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | 238,492 | 222,731 | 461,223 | 8,886,644 | 8,394,464 | 17,281,108 |
| 26 | 233,800 | 222,235 | 456,035 | 9,120,444 | 8,616,699 | 17,737,143 |
| 27 | 229,782 | 229,252 | 459,034 | 9,350,226 | 8,845,951 | 18,196,177 |
| 28 | 214,351 | 209,485 | 423,836 | 9,564,577 | 9,055,436 | 18,620,013 |
| 29 | 214,413 | 202,223 | 416,636 | 9,778,990 | 9,257,659 | 19,036,649 |
| 30 | 213,219 | 208,818 | 422,037 | 9,992,209 | 9,466,477 | 19,458,686 |
| 31 | 192,149 | 198,578 | 390,727 | 10,184,358 | 9,665,055 | 19,849,413 |
| 32 | 208,563 | 205,739 | 414,302 | 10,392,921 | 9,870,794 | 20,263,715 |
| 33 | 191,245 | 193,330 | 384,575 | 10,584,166 | 10,064,124 | 20,648,290 |
| 34 | 181,209 | 190,279 | 371,488 | 10,765,375 | 10,254,403 | 21,019,778 |
| 35 | 176,422 | 179,138 | 355,560 | 10,941,797 | 10,433,541 | 21,375,338 |
| 36 | 173,565 | 180,424 | 353,989 | 11,115,362 | 10,613,965 | 21,729,327 |
| 37 | 170,504 | 178,129 | 348,633 | 11,285,866 | 10,792,094 | 22,077,960 |
| 38 | 161,765 | 168,978 | 330,743 | 11,447,631 | 10,961,072 | 22,408,703 |
| 39 | 158,355 | 171,804 | 330,159 | 11,605,986 | 11,132,876 | 22,738,862 |
| 40 | 168,787 | 179,457 | 348,244 | 11,774,773 | 11,312,333 | 23,087,106 |
| 41 | 153,668 | 162,336 | 316,004 | 11,928,441 | 11,474,669 | 23,403,110 |
| 42 | 170,662 | 166,847 | 337,509 | 12,099,103 | 11,641,516 | 23,740,619 |
| 43 | 150,110 | 148,522 | 298,632 | 12,249,213 | 11,790,038 | 24,039,251 |
| 44 | 144,393 | 147,148 | 291,541 | 12,393,606 | 11,937,186 | 24,330,792 |
| 45 | 124,939 | 128,243 | 253,182 | 12,518,545 | 12,065,429 | 24,583,974 |
| 46 | 129,120 | 121,567 | 250,687 | 12,647,665 | 12,186,996 | 24,834,661 |
| 47 | 127,703 | 131,481 | 259,184 | 12,775,368 | 12,318,477 | 25,093,845 |
| 48 | 116,673 | 122,686 | 239,359 | 12,892,041 | 12,441,163 | 25,333,204 |
| 49 | 107,782 | 115,600 | 223,382 | 12,999,823 | 12,556,763 | 25,556,586 |
| 50 | 102,463 | 117,965 | 220,428 | 13,102,286 | 12,674,728 | 25,777,014 |
| 51 | 80,275 | 88,578 | 168,853 | 13,182,561 | 12,763,306 | 25,945,867 |
| 52 | 80,913 | 102,001 | 182,914 | 13,263,474 | 12,865,307 | 26,128,781 |
| 53 | 62,670 | 77,254 | 139,924 | 13,326,144 | 12,942,561 | 26,268,705 |
| 54 | 53,287 | 70,640 | 123,927 | 13,379,431 | 13,013,201 | 26,392,632 |
| 55 | 93,822 | 87,270 | 181,092 | 13,473,253 | 13,100,471 | 26,573,724 |


| Age | Male | Female | Total | $F_{i}$ Male | $\boldsymbol{F}_{\boldsymbol{i}}$ Female | $F_{i}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 56 | 82,002 | 78,491 | 160,493 | 13,555,255 | 13,178,962 | 26,734,217 |
| 57 | 85,434 | 97,002 | 182,436 | 13,640,689 | 13,275,964 | 26,916,653 |
| 58 | 79,214 | 90,220 | 169,434 | 13,719,903 | 13,366,184 | 27,086,087 |
| 59 | 72,389 | 74,709 | 147,098 | 13,792,292 | 13,440,893 | 27,233,185 |
| 60 | 68,049 | 82,460 | 150,509 | 13,860,341 | 13,523,353 | 27,383,694 |
| 61 | 59,480 | 59,999 | 119,479 | 13,919,821 | 13,583,352 | 27,503,173 |
| 62 | 71,943 | 79,705 | 151,648 | 13,991,764 | 13,663,057 | 27,654,821 |
| 63 | 47,525 | 50,883 | 98,408 | 14,039,289 | 13,713,940 | 27,753,229 |
| 64 | 32,668 | 33,303 | 65,971 | 14,071,957 | 13,747,243 | 27,819,200 |
| 65 | 51,429 | 57,813 | 109,242 | 14,123,386 | 13,805,056 | 27,928,442 |
| 66 | 34,775 | 31,735 | 66,510 | 14,158,161 | 13,836,791 | 27,994,952 |
| 67 | 42,795 | 53,019 | 95,814 | 14,200,956 | 13,889,810 | 28,090,766 |
| 68 | 25,671 | 25,078 | 50,749 | 14,226,627 | 13,914,888 | 28,141,515 |
| 69 | 35,427 | 29,954 | 65,381 | 14,262,054 | 13,944,842 | 28,206,896 |
| 70 | 34,624 | 31,457 | 66,081 | 14,296,678 | 13,976,299 | 28,272,977 |
| 71 | 24,104 | 22,865 | 46,969 | 14,320,782 | 13,999,164 | 28,319,946 |
| 72 | 28,175 | 31,255 | 59,430 | 14,348,957 | 14,030,419 | 28,379,376 |
| 73 | 23,617 | 23,522 | 47,139 | 14,372,574 | 14,053,941 | 28,426,515 |
| 74 | 14,092 | 16,105 | 30,197 | 14,386,666 | 14,070,046 | 28,456,712 |
| 75 | 20,137 | 31,841 | 51,978 | 14,406,803 | 14,101,887 | 28,508,690 |
| 76 | 10,350 | 9,318 | 19,668 | 14,417,153 | 14,111,205 | 28,528,358 |
| 77 | 9,421 | 16,920 | 26,341 | 14,426,574 | 14,128,125 | 28,554,699 |
| 78 | 14,633 | 9,513 | 24,146 | 14,441,207 | 14,137,638 | 28,578,845 |
| 79 | 10,552 | 9,556 | 20,108 | 14,451,759 | 14,147,194 | 28,598,953 |
| 80 | 72,326 | 107,922 | 180,248 | 14,524,085 | 14,255,116 | 28,779,201 |
| Total | 14,451,759 | 14,147,194 | 28,598,953 |  |  |  |

## Appendix (2) Estimates of the rural population in Iraq and the cumulative ascending

 frequency by gender and single age groups for the year 2021| Age <br> categories | Male | Female | Total | $F_{i}$ Male | $F_{i}$ Female | $F_{i}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| Age categories | Male | Female | Total | $F_{i}$ Male | $F_{i}$ Female | $F_{i}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 182,614 | 173,228 | 355,842 | 182,614 | 173,228 | 355,842 |
| 1 | 204,518 | 199,370 | 403,888 | 387,132 | 372,598 | 759,730 |
| 2 | 216,020 | 200,714 | 416,734 | 603,152 | 573,312 | 1,176,464 |
| 3 | 212,723 | 201,591 | 414,314 | 815,875 | 774,903 | 1,590,778 |
| 4 | 211,680 | 203,003 | 414,683 | 1,027,555 | 977,906 | 2,005,461 |
| 5 | 203,752 | 190,725 | 394,477 | 1,231,307 | 1,168,631 | 2,399,938 |
| 6 | 202,185 | 184,219 | 386,404 | 1,433,492 | 1,352,850 | 2,786,342 |
| 7 | 197,928 | 183,946 | 381,874 | 1,631,420 | 1,536,796 | 3,168,216 |
| 8 | 194,961 | 181,635 | 376,596 | 1,826,381 | 1,718,431 | 3,544,812 |
| 9 | 186,922 | 167,955 | 354,877 | 2,013,303 | 1,886,386 | 3,899,689 |
| 10 | 182,938 | 165,495 | 348,433 | 2,196,241 | 2,051,881 | 4,248,122 |
| 11 | 178,138 | 166,023 | 344,161 | 2,374,379 | 2,217,904 | 4,592,283 |
| 12 | 183,289 | 168,416 | 351,705 | 2,557,668 | 2,386,320 | 4,943,988 |
| 13 | 171,259 | 163,041 | 334,300 | 2,728,927 | 2,549,361 | 5,278,288 |
| 14 | 161,992 | 153,556 | 315,548 | 2,890,919 | 2,702,917 | 5,593,836 |
| 15 | 157,978 | 150,938 | 308,916 | 3,048,897 | 2,853,855 | 5,902,752 |
| 16 | 148,096 | 139,420 | 287,516 | 3,196,993 | 2,993,275 | 6,190,268 |
| 17 | 146,442 | 136,062 | 282,504 | 3,343,435 | 3,129,337 | 6,472,772 |
| 18 | 143,090 | 129,208 | 272,298 | 3,486,525 | 3,258,545 | 6,745,070 |
| 19 | 133,770 | 117,656 | 251,426 | 3,620,295 | 3,376,201 | 6,996,496 |
| 20 | 130,673 | 116,732 | 247,405 | 3,750,968 | 3,492,933 | 7,243,901 |
| 21 | 117,933 | 102,231 | 220,164 | 3,868,901 | 3,595,164 | 7,464,065 |
| 22 | 125,687 | 109,574 | 235,261 | 3,994,588 | 3,704,738 | 7,699,326 |
| 23 | 101,338 | 93,786 | 195,124 | 4,095,926 | 3,798,524 | 7,894,450 |
| 24 | 95,576 | 87,895 | 183,471 | 4,191,502 | 3,886,419 | 8,077,921 |
| 25 | 87,885 | 85,045 | 172,930 | 4,279,387 | 3,971,464 | 8,250,851 |
| 26 | 85,390 | 86,373 | 171,763 | 4,364,777 | 4,057,837 | 8,422,614 |
| 27 | 91,186 | 90,531 | 181,717 | 4,455,963 | 4,148,368 | 8,604,331 |
| 28 | 82,730 | 84,565 | 167,295 | 4,538,693 | 4,232,933 | 8,771,626 |


| Age categories | Male | Female | Total | $F_{i}$ Male | $F_{i}$ Female | $F_{i}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 29 | 77,533 | 80,040 | 157,573 | 4,616,226 | 4,312,973 | 8,929,199 |
| 30 | 80,316 | 88,312 | 168,628 | 4,696,542 | 4,401,285 | 9,097,827 |
| 31 | 71,554 | 75,150 | 146,704 | 4,768,096 | 4,476,435 | 9,244,531 |
| 32 | 80,344 | 88,320 | 168,664 | 4,848,440 | 4,564,755 | 9,413,195 |
| 33 | 74,050 | 77,893 | 151,943 | 4,922,490 | 4,642,648 | 9,565,138 |
| 34 | 69,461 | 75,290 | 144,751 | 4,991,951 | 4,717,938 | 9,709,889 |
| 35 | 65,988 | 70,038 | 136,026 | 5,057,939 | 4,787,976 | 9,845,915 |
| 36 | 64,608 | 68,630 | 133,238 | 5,122,547 | 4,856,606 | 9,979,153 |
| 37 | 66,474 | 75,249 | 141,723 | 5,189,021 | 4,931,855 | 10,120,876 |
| 38 | 60,898 | 67,753 | 128,651 | 5,249,919 | 4,999,608 | 10,249,527 |
| 39 | 62,422 | 63,901 | 126,323 | 5,312,341 | 5,063,509 | 10,375,850 |
| 40 | 68,044 | 70,234 | 138,278 | 5,380,385 | 5,133,743 | 10,514,128 |
| 41 | 58,414 | 60,101 | 118,515 | 5,438,799 | 5,193,844 | 10,632,643 |
| 42 | 68,640 | 67,246 | 135,886 | 5,507,439 | 5,261,090 | 10,768,529 |
| 43 | 56,896 | 52,459 | 109,355 | 5,564,335 | 5,313,549 | 10,877,884 |
| 44 | 55,199 | 55,091 | 110,290 | 5,619,534 | 5,368,640 | 10,988,174 |
| 45 | 45,855 | 47,070 | 92,925 | 5,665,389 | 5,415,710 | 11,081,099 |
| 46 | 45,510 | 41,779 | 87,289 | 5,710,899 | 5,457,489 | 11,168,388 |
| 47 | 42,883 | 46,598 | 89,481 | 5,753,782 | 5,504,087 | 11,257,869 |
| 48 | 37,528 | 40,690 | 78,218 | 5,791,310 | 5,544,777 | 11,336,087 |
| 49 | 31,109 | 37,407 | 68,516 | 5,822,419 | 5,582,184 | 11,404,603 |
| 50 | 29,860 | 38,666 | 68,526 | 5,852,279 | 5,620,850 | 11,473,129 |
| 51 | 19,814 | 26,506 | 46,320 | 5,872,093 | 5,647,356 | 11,519,449 |
| 52 | 23,135 | 33,522 | 56,657 | 5,895,228 | 5,680,878 | 11,576,106 |
| 53 | 13,477 | 20,017 | 33,494 | 5,908,705 | 5,700,895 | 11,609,600 |
| 54 | 11,172 | 18,938 | 30,110 | 5,919,877 | 5,719,833 | 11,639,710 |
| 55 | 26,752 | 23,257 | 50,009 | 5,946,629 | 5,743,090 | 11,689,719 |
| 56 | 24,540 | 24,649 | 49,189 | 5,971,169 | 5,767,739 | 11,738,908 |
| 57 | 29,388 | 36,130 | 65,518 | 6,000,557 | 5,803,869 | 11,804,426 |


| $\begin{gathered} \hline \text { Age } \\ \text { categories } \end{gathered}$ | Male | Female | Total | $F_{i}$ Male | $F_{i}$ Female | $F_{i}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58 | 25,981 | 29,722 | 55,703 | 6,026,538 | 5,833,591 | 11,860,129 |
| 59 | 22,818 | 26,100 | 48,918 | 6,049,356 | 5,859,691 | 11,909,047 |
| 60 | 23,651 | 26,547 | 50,198 | 6,073,007 | 5,886,238 | 11,959,245 |
| 61 | 18,254 | 20,053 | 38,307 | 6,091,261 | 5,906,291 | 11,997,552 |
| 62 | 25,150 | 27,925 | 53,075 | 6,116,411 | 5,934,216 | 12,050,627 |
| 63 | 16,847 | 17,495 | 34,342 | 6,133,258 | 5,951,711 | 12,084,969 |
| 64 | 9,929 | 9,852 | 19,781 | 6,143,187 | 5,961,563 | 12,104,750 |
| 65 | 16,058 | 18,881 | 34,939 | 6,159,245 | 5,980,444 | 12,139,689 |
| 66 | 9,040 | 7,179 | 16,219 | 6,168,285 | 5,987,623 | 12,155,908 |
| 67 | 13,954 | 18,136 | 32,090 | 6,182,239 | 6,005,759 | 12,187,998 |
| 68 | 6,896 | 6,058 | 12,954 | 6,189,135 | 6,011,817 | 12,200,952 |
| 69 | 9,818 | 8,272 | 18,090 | 6,198,953 | 6,020,089 | 12,219,042 |
| 70 | 10,555 | 11,505 | 22,060 | 6,209,508 | 6,031,594 | 12,241,102 |
| 71 | 6,793 | 5,385 | 12,178 | 6,216,301 | 6,036,979 | 12,253,280 |
| 72 | 8,947 | 10,443 | 19,390 | 6,225,248 | 6,047,422 | 12,272,670 |
| 73 | 5,814 | 5,447 | 11,261 | 6,231,062 | 6,052,869 | 12,283,931 |
| 74 | 3,669 | 3,433 | 7,102 | 6,234,731 | 6,056,302 | 12,291,033 |
| 75 | 6,337 | 11,652 | 17,989 | 6,241,068 | 6,067,954 | 12,309,022 |
| 76 | 2,183 | 2,573 | 4,756 | 6,243,251 | 6,070,527 | 12,313,778 |
| 77 | 4,130 | 5,862 | 9,992 | 6,247,381 | 6,076,389 | 12,323,770 |
| 78 | 3,909 | 2,259 | 6,168 | 6,251,290 | 6,078,648 | 12,329,938 |
| 79 | 2,836 | 2,312 | 5,148 | 6,254,126 | 6,080,960 | 12,335,086 |
| 80 | 32,268 | 44,103 | 76,371 | 6,286,394 | 6,125,063 | 12,411,457 |
| Total | 6,286,394 | 6,125,063 | 12,411,457 |  |  |  |

