

Astana Medical University
Department of Public Health

IWS

Study of the natural movement of the population

Done by: Amangeldi K.M.

Checked by: Karpikbaeva Zh.A.

Astana 2017

- The **natural movement of the population** is a change in the population as a result of births and deaths.

| Has two indicators | |
|--|--|
| absolute | relative |
| 1. The number of births during the period (P) 2. The number of deaths during the period (Y) 3. Natural increase of the population. | 1.Coefficient of natural increase. 2.Coefficient of vitality. 3.The total fertility rate. 4.The total death rate. |

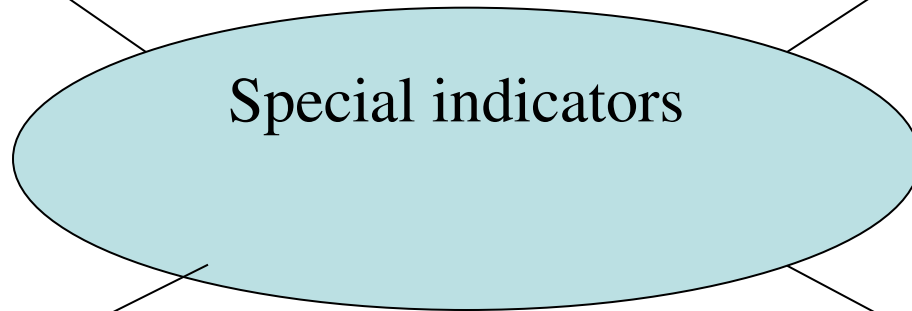
Coefficient of
reproduction efficiency
of the population.

The coefficient of
dilution.

Special indicators

Marriage rate.

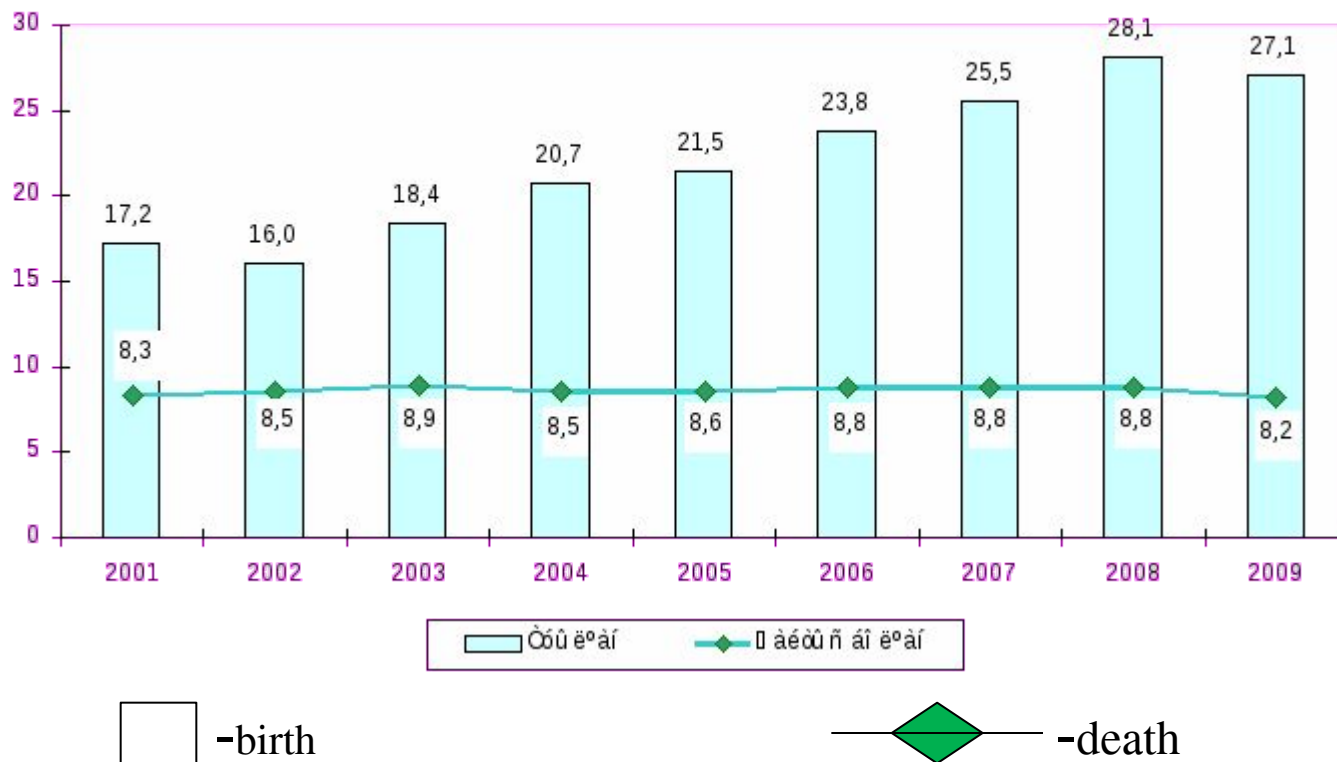
The coefficient of infant
death.



2001-2009 years, natural movement

| | births | 1000 people | the dead | 1000 people | natural growth | 1000 people | marriage | 1000 people | divorce | 1000 people |
|------|--------|-------------|----------|-------------|----------------|-------------|----------|-------------|---------|-------------|
| 2001 | 17196 | 17 | 8344 | 8 | 8852 | 9 | 5862 | 6 | 1337 | 1,4 |
| 2002 | 16040 | 16 | 8513 | 9 | 7527 | 8 | 6055 | 6 | 1350 | 1,4 |
| 2003 | 18376 | 18 | 8877 | 9 | 9499 | 10 | 6914 | 7 | 1368 | 1,4 |
| 2004 | 20681 | 21 | 8472 | 9 | 12209 | 12 | 7526 | 8 | 1362 | 1,4 |
| 2005 | 21522 | 22 | 8638 | 9 | 12884 | 13 | 7896 | 8 | 1296 | 1,3 |
| 2006 | 23850 | 24 | 8846 | 9 | 15004 | 15 | 9431 | 9 | 1522 | 1,5 |
| 2007 | 25505 | 25 | 8850 | 9 | 16655 | 16 | 10043 | 10 | 1606 | 1,6 |
| 2008 | 28075 | 27 | 8760 | 9 | 19315 | 19 | 8852 | 9 | 1509 | 1,5 |
| 2009 | 27080 | 26 | 8202 | 8 | 18878 | 18 | 8826 | 9 | 1604 | 1,5 |

Graphical presentation of data of birth and death.

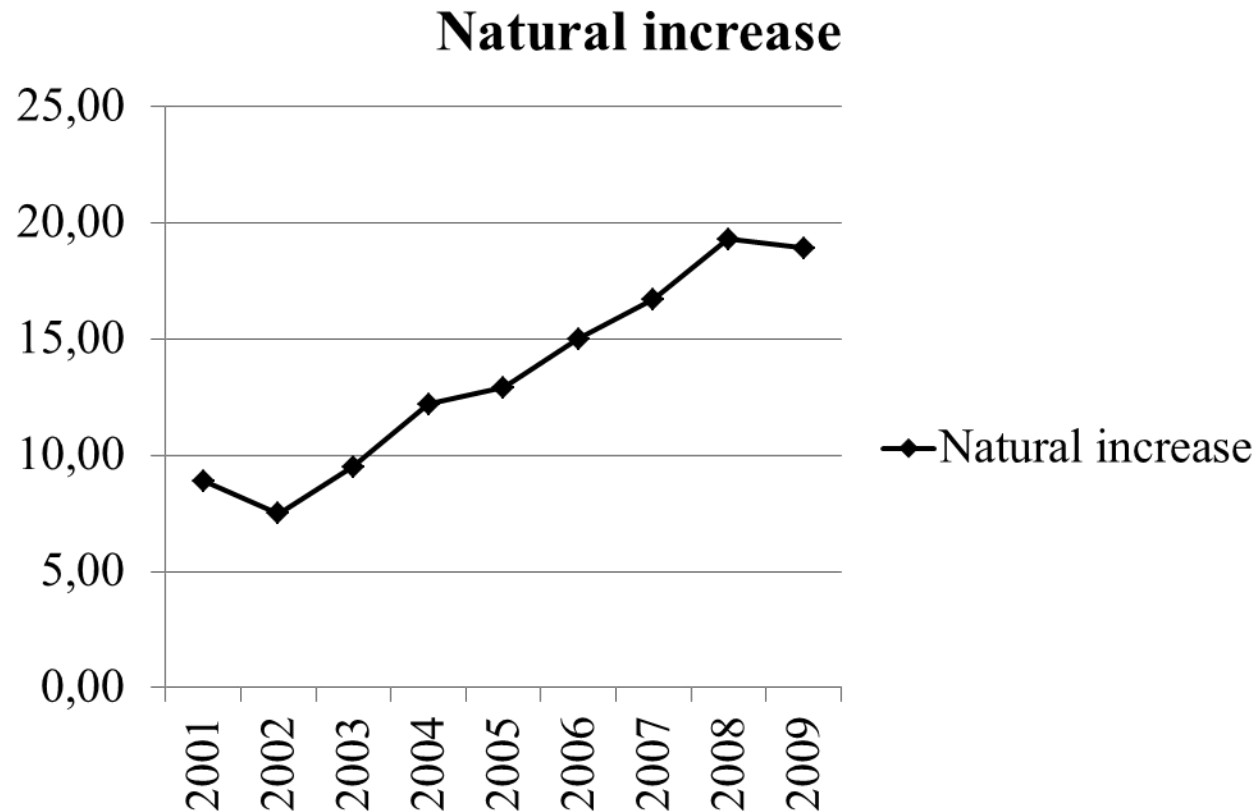


Statistics Agency of the Republic of Kazakhstan:

-"Civil Code of the Republic of Kazakhstan (special part)," according to the material that can not be changed.

Conclusion

- Natural increase= The number of births during the period (P)-The number of deaths during the period (Y)



As we can see natural growth is increased. The main reason for it is enlargement of marriage which enhance a rate of births, also development of medicine which helps to save lives of newborns.

Bibliography

- Kazakhstan's department of statistics agency's database during 2001-2009 years.
- <http://www.grandars.ru/student/statistika/estvennoe-dvizhenie-naseleniya.html>