

## Development of India and Pakistan after World War II: Problems and experiences

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India and Pakistan entered the ranks of lower-middle-income countries in 2007 and 2008, respectively, and they are two of the most important developing countries with huge population in the world (World Bank, 2021). Historically, both India and Pakistan belonged to British colonies, with similar levels of economic development and culture. Problems and experiences from their development can contribute to development theories and be learnt by other developing countries.

### 1. COMPARISON OF DEVELOPMENT BETWEEN INDIA AND PAKISTAN

After independence, India experienced consistently accelerated GDP growth rate with occasional trend breaks (Ahmad et al., 2018). While maintaining an average annual growth rate of 5%, the GDP growth rate goes down to -5.34% and -7.96% in 1979 and 2020 respectively. In contrast, after the rapid growth in the 1960s and 1980s, Pakistan's GDP growth rate gradually declined, and dropped to 0.53% after the COVID-19 (World Bank, 2021).

Different GDP growth trends in the two countries have affected the growth of GNI per capita. In figure 1 of appendix A, Pakistan had a GNI per capita close to the average level of lower-middle-income countries (LMCs) in the 1990s, but due to its lower economic and income growth rate compared to India and other developing countries, India surpassed Pakistan in 2008-2009 and constantly moving closer to the average level of LMCs, and Pakistan has been at about half the level of India and LMCs since the 2010s.

In terms of poverty, India and Pakistan both have relatively large income inequality, low level of urbanization and more than one-fifth of the population is in absolute poverty.

TABLE 1. Selected data on economic development and poverty in 2020\*

|   | India                | Pakistan            |
|---|----------------------|---------------------|
| GDP (current US\$)  | 2,622,983,732,006.45 | 263,686,552,686.208 |
| Population, total   | 1,380,004,385        | 220,892,331         |
| Urban population (% of total population)                            | 34.926               | 37.165              |
| GNI per capita, PPP (current international \$)                      | 6,390                | 4,770               |
| Gross savings (% of GDP)  | 30.20                | 17.23               |
| Gini coefficient  | 0.357 (2011)         | 0.316 (2018)        |
| Poverty headcount ratio at national poverty lines (% of population) | 21.9 (2011)          | 21.9 (2018)         |

\*Source: World Bank, Database World Development Indicators. Last Updated: 11/23/2021

In terms of capital, we mainly focus on the gross capital formation of India and Pakistan (measured in current U.S. dollar). Gross capital formation includes gross fixed capital formation and inventory and it measures total capital. In detail, this number in India was 5,810,161,322 dollars in 1960 and 745,459,792,472 dollars in 2020 (World Bank, 1960 & 2020). For Pakistan, it was 507,349,853 dollars in 1960 and 40,624,904,024 dollars in 2020 (World Bank, 1960 & 2020). In comparison, apparently India has higher capital, but neither exceed the average of 1,985,080,009,734 dollars among all the LMC countries in 2020 (World Bank, 2020). Talking about gross capital formation as a share of GDP, this number of India has increased from 15.7% to 28.4% throughout the 60 years (World Bank, 1960 & 2020), while the increase of Pakistan is relatively subtle, only from 13.5% to 15.4% (World Bank, 1960 & 2020). And take the average of all LMC countries as a benchmark, which is 15.9% in 1960 and 28% in 2020 (World Bank,

1960 & 2020), it seems that India has a better development status because its capital takes up more proportion of its GDP.

TABLE 2. Selected data on capital formation in 1960 and 2020\*

| 1960   | India           | Pakistan       | Average LMCs      |
|--|-----------------|----------------|-------------------|
| Gross capital formation (measured in current \$) | 5,810,161,322   | 507,349,853    | Non               |
| Gross capital formation (\% of GDP)              | 15.7%           | 13.5%          | 15.9%             |
| 2020   | India           | Pakistan       | Average LMCs      |
| Gross capital formation (measured in current \$) | 745,459,792,472 | 40,624,904,024 | 1,985,080,009,734 |
| Gross capital formation (\% of GDP)              | 28.4%           | 15.4%          | 28%               |

\*Source: World Bank, Database World Development Indicators. Last Updated: 11/23/2021

In India, government expenditure on education is consistently above 3% of total GDP after 1995, while in Pakistan it is consistently below 3% and most teaching facilities are poor. Teachers' professional capacity is also a serious problem, as the 2005 National Education Census (2008) shows that 26% of teachers in Pakistan have not received formal teacher education, and only 37% have received primary teacher qualification training and junior secondary teacher qualification training, and the Pakistan National Education Evaluation System (2009) indicates that "the overall professional level of teachers in the country is low and teacher education quality of teacher education is not assured. United Nations Educational, Scientific and Cultural Organisation [UNESCO] and United States Agency for International Development [USAID] (2006) thought that "the inherent shortcomings of Pakistan's centralized and controlled administration and lack of commitment to education policy are the root causes of slow educational development."

Looking ahead, India is already better at enrolling in schools at all levels. in 2019, India's secondary education enrollment rate was 73.8%, compared to Pakistan's 44.9% (World Bank, 2021), this will open up the literacy gap in the coming years. Whereas in 2018, the literacy rate of the population aged 15 years and above was 74.4% in India and 57% in Pakistan, it can be inferred that within the last two decades, Pakistan's educational penetration has been lower than India's and the overall national quality is lower than India's. In India, education was an unimaginable luxury for the poor between 1985 and 2000, with only about 60% of students completing elementary school, and after 2010, the rate has stabilized between 80% and 90%. And primary school enrollment rates in both countries have steadily increased at the same time with similar frequency.

Today, the literacy rate for females over the age of 15 is 1:1.53 for males in Pakistan and 1:1.25 in India, indicating that both countries face inequities in education between males and females today, but more serious in Pakistan. This is also reflected in the ratio of male to female enrollment in secondary schools in both countries, where the ratio of male to female enrollment in secondary schools in India was 1.01:1 in 2013 compared to 1.36:1 in Pakistan (World Bank, 2021), which also indicates that India is expected to achieve greater equality in the level of education between males and females.

TABLE 3. Selected data on health in 1960 and 2010\*

|  | India  |      | Pakistan |      |
|--|--------|------|----------|------|
| Life expectancy at birth, female (years)       | 70.95  |      | 68.287   |      |
| Life expectancy at birth, male (years)         | 68.464 |      | 66.337   |      |
| Life expectancy at birth, total (years)        | 69.656 |      | 67.273   |      |
|  | India  |      | Pakistan |      |
|  | 1960   | 2019 | 1960     | 2019 |
| Mortality rate, infant (per 1,000 live births) | 16.1   | 2.83 | 18.53    | 5.57 |

\*Source: World Bank, Database World Development Indicators.

Depending on the data, we can know that India and Pakistan life expectancy has an upward trend, and women's life expectancy is longer than men's life expectancy. And Life expectancy in Pakistan was higher than in India until 2003, after which India overtook Pakistan. Since 1991, India's child universal malnutrition decreased from 61.9 to 34.7 percent; Pakistan's child malnutrition was also reduced from 53.9 to 37.6 percent (World Bank, 2021).

Pakistan's infant mortality rate from 1960 to 2019 decreased by 12.96 percent; India's infant mortality rate from 1960 to 2019 dropped by 13.27 percent. India's five-year-old child mortality (per 1,000 live births) has dropped significantly. In 1960, India's mortality rate of 5 years old was 24.14 percent, and Pakistan was 25.24 percent. In 1970, the position of the two countries has changed, and India is 14.26 percent, Pakistan is 14.19 percent. In 2019, it has achieved significant progress, especially in India. India's mortality rate of 5 years old in 2019 is 3.43 percent, Pakistan is 6.72 percent (World Bank, 2021).

## 2. GROWTH THEORY APPLICATION

Generally speaking, India has a better development than Pakistan despite they were on the similar starting line. Figure 1 and figure 2 show that economic growth and income level are related to changes in the savings rate. Therefore, Harrod-Domar growth model (Harrod, 1939) (Domar, 1946) can explain part of the reasons of development difference.

$$\Delta Y/Y = s^G/c - \delta$$

Assuming India and Pakistan have the same rate of capital depreciation, how fast capital is accumulated and how efficiently it is converted into output determine economic growth. In the equation, those two measures are net saving ratio  $s$  and capital-output rate  $c$  respectively. Looking at the two graphs in appendix A, the savings rates of Pakistan and India are both lower than the average level of low- and middle-income countries. After the 1990s, the savings rate of India has risen rapidly, which is about 15% behind Pakistan and close to the average level. As a result, India has a higher GNI per capita PPP, GDP growth rate. (Before the COVID-19).

Take other source of development such as labor force, human capital and technological progress into consideration, Solow neoclassical growth model (Solow, 1956) help to understand the development in India and Pakistan more comprehensively.

$$Y = K^a(AL)^{1-a}$$

In addition to capital accumulation, it can be seen that the explosive population growth of India and Pakistan has provided sufficient impetus for economic growth, and scientific research and education have improved labor productivity. If we put  $A$  before  $K$ , we will find that with the advancement of technology and management, the efficiency of capital allocation and output will also be greatly improved.

$$\frac{\partial Y}{\partial L} = K^a A^{1-a} L^{-a}$$

However, labor has diminishing marginal returns. Without ensuring that the growing population receives good medical care and education, the generation of human capital will be very slow, and the rapidly growing population will become a burden, leading to a series of consequences such as poverty, environmental damage, and rising crime rates. We see that Pakistan did not manage the balance between population growth and economic development after the 1990s, and its development indicators have gradually lagged behind India and other LMCs.

## 3. SUGGESTED POLICIES

According to Shen and Xu (2020), India is a consumer economy driven by domestic demand, but the consumption structure needs to be optimized. Also, India should develop its manufacturing industry in order to accumulate capital as well as reverse the situation of trade

deficit. What's more, failure of the financial system is also one of the reasons for India's economic downturn, which needs effective credit support to recover the economy. For Pakistan, Zheng and Li (2021) suggest that the severe debt crisis suffered in recent years has obviously restrained the country's economic growth, therefore it is necessary to improve financial efficiency and the financial market system. Lastly, the financial market affects external financial costs, so investment should be promoted even more, and maintaining a stable interest rate and accumulating reserves can not only meet investment needs, but also ensure that people actively save money instead of blindly investing outside (KHAN, M. A. , 2018).

Pakistan's education department released the Minimum Standards for Quality Education in 2017 to improve the reality of low enrollment and poor quality of education for children in Pakistan (Qiao, H. Y., 2018), but Pakistan still faces the problem of significant regional disparities in educational attainment, with provinces such as Islamabad and Sindh as educationally advantaged areas and areas such as Balochistan as educationally weak areas, and teacher resources from educationally advantaged areas should be tilted towards weak areas (Munawar, A. et al., 2019). The Pakistani government should also provide pre-service and in-service training for teachers, ensure the quality of teacher education, but also strengthen the management of educational institutions.

From the perspective of health care, although the medical and health system in the two countries is improved, it is obvious that the medical and health system of Pakistan is behind India's medical system. In order to further strengthen the improvement of Pakistan's health care system, the following recommendations are given. The first aspect is to actively promote the reasonable and effective configuration of medical resources, such as the three-and-hazardous tribe, scientifically, and scientifically promote the combined reform of Chinese and Western medicine. The second aspect is to deepen the reform of public health system, such as reforming and improving epidemic monitoring and evaluation systems, and formulating legal and policies for epidemic response.

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## APPENDIX A. FIGURES

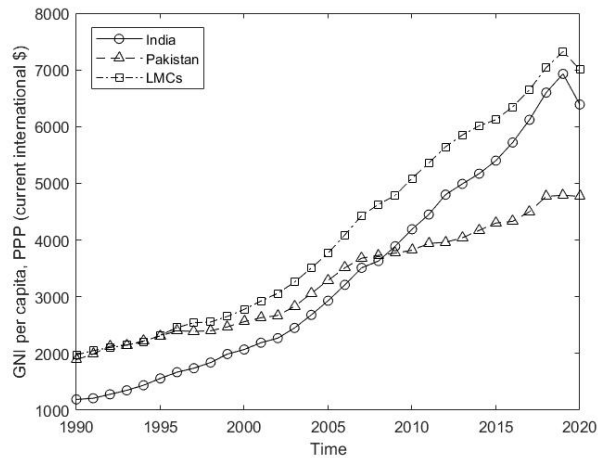


FIGURE 1. Comparison of GNI per capita, PPP in past 30 years  
Source: World Bank WDI

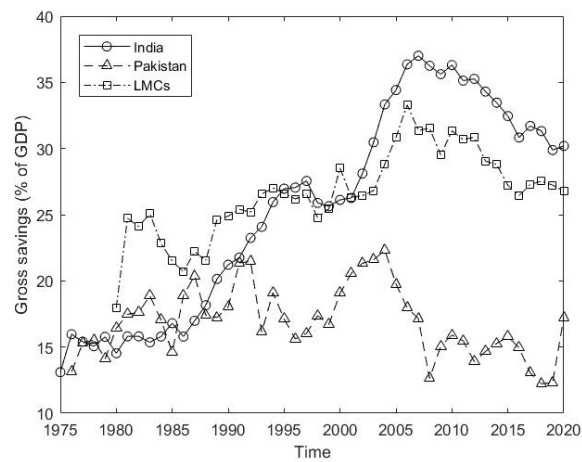


FIGURE 2. Comparison of gross savings (% of GDP)  
Source: World Bank WDI

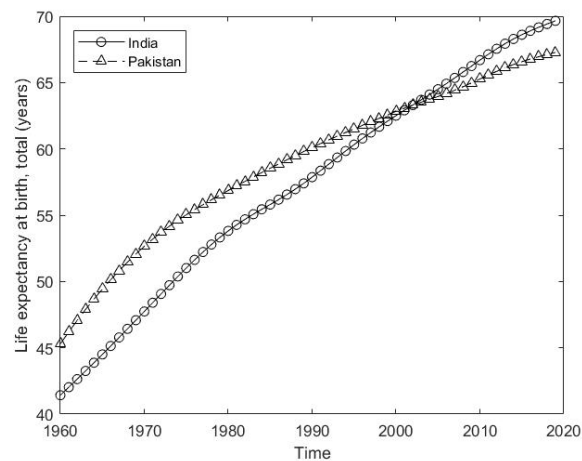


FIGURE 3. Comparison of life expectancy at birth, total (years)  
Source: World Bank WDI

# APPENDIX B. DATA OF PAKISTAN

| Pakistan |                          |   |                                 |  |  |
|----------|--------------------------|---|---------------------------------|--|--|
| Year     | GDP growth<br>(annual %) | GNI per capita, PPP<br>(constant 2017 \$) | Total life expectancy<br>(year) | Government expenditure<br>on education(% of GDP) | Government expenditure on education<br>(% of government expenditure) |
| 1960     | ..                       | ..  | 45.299                          | ..   | ..   |
| 1961     | 5.987346                 | ..  | 46.197                          | ..   | ..   |
| 1962     | 4.482859                 | ..  | 47.059                          | ..   | ..   |
| 1963     | 8.688832                 | ..  | 47.884                          | ..   | ..   |
| 1964     | 7.569757                 | ..  | 48.67                           | ..   | ..   |
| 1965     | 10.41937                 | ..  | 49.42                           | ..   | ..   |
| 1966     | 5.789952                 | ..  | 50.134                          | ..   | ..   |
| 1967     | 5.400613                 | ..  | 50.812                          | ..   | ..   |
| 1968     | 7.233221                 | ..  | 51.457                          | ..   | ..   |
| 1969     | 5.5079                   | ..  | 52.07                           | ..   | ..   |
| 1970     | 11.35346                 | ..  | 52.649                          | ..   | ..   |
| 1971     | 0.468373                 | ..  | 53.192                          | 1.65422  | ..   |
| 1972     | 0.813406                 | ..  | 53.699                          | 1.56882  | ..   |
| 1973     | 7.064264                 | ..  | 54.171                          | 1.83042  | ..   |
| 1974     | 3.540192                 | ..  | 54.613                          | 1.88065  | ..   |
| 1975     | 4.211416                 | ..  | 55.028                          | 1.98008  | ..   |
| 1976     | 5.15619                  | ..  | 55.421                          | 2.23794  | ..   |
| 1977     | 3.947698                 | ..  | 55.796                          | 2.14983  | ..   |
| 1978     | 8.048534                 | ..  | 56.158                          | 2.20418  | ..   |
| 1979     | 3.758436                 | ..  | 56.512                          | 2.19807  | ..   |
| 1980     | 10.2157                  | ..  | 56.86                           | 2.13095  | ..   |
| 1981     | 7.920764                 | ..  | 57.206                          | 1.97245  | ..   |
| 1982     | 6.537487                 | ..  | 57.546                          | 2.01367  | ..   |
| 1983     | 6.778378                 | ..  | 57.882                          | 1.99577  | ..   |
| 1984     | 5.065206                 | ..  | 58.213                          | 2.06985  | ..   |
| 1985     | 7.592115                 | ..  | 58.54                           | 2.43543  | ..   |
| 1986     | 5.501654                 | ..  | 58.863                          | 2.67813  | ..   |
| 1987     | 6.452343                 | ..  | 59.18                           | 2.97746  | ..   |
| 1988     | 7.625279                 | ..  | 59.493                          | ..   | ..   |
| 1989     | 4.959769                 | ..  | 59.799                          | 2.36382  | ..   |
| 1990     | 4.458587                 | 2841.108                                  | 60.1                            | 2.51681  | ..   |
| 1991     | 5.061568                 | 2897.668                                  | 60.393                          | 2.56676  | ..   |
| 1992     | 7.705898                 | 3033.316                                  | 60.68                           | 2.54968  | ..   |
| 1993     | 1.757748                 | 2993.511                                  | 60.96                           | 2.38644  | 7.80285  |
| 1994     | 3.737416                 | 3015.216                                  | 61.235                          | 2.58931  | 9.37643  |
| 1995     | 4.962609                 | 3080.786                                  | 61.505                          | 2.79531  | 10.31327   |
| 1996     | 4.846581                 | 3133.871                                  | 61.773                          | 2.81057  | 10.06899   |
| 1997     | 1.014396                 | 3062.757                                  | 62.039                          | 3.0223   | 11.7534  |
| 1998     | 2.550234                 | 3039.773                                  | 62.303                          | ..   | ..   |
| 1999     | 3.660133                 | 3097.349                                  | 62.564                          | 2.61149  | 11.30733   |
| 2000     | 4.260088                 | 3160.711                                  | 62.82                           | 1.83782  | 8.48988  |
| 2001     | 3.554418                 | 3183.551                                  | 63.066                          | ..   | ..   |
| 2002     | 2.508338                 | 3178.952                                  | 63.3                            | ..   | ..   |
| 2003     | 5.777034                 | 3303.055                                  | 63.522                          | ..   | ..   |
| 2004     | 7.54686                  | 3485.41                                   | 63.736                          | 1.76759  | 11.22935   |
| 2005     | 6.518778                 | 3631.121                                  | 63.951                          | 2.04972  | 13.77751   |
| 2006     | 5.898984                 | 3761.372                                  | 64.176                          | 2.39551  | 15.2891  |
| 2007     | 4.832817                 | 3838.638                                  | 64.42                           | 2.63527  | 15.44552   |
| 2008     | 1.701405                 | 3820.418                                  | 64.685                          | 2.74623  | 14.09696   |
| 2009     | 2.831659                 | 3829.372                                  | 64.969                          | 2.59078  | 12.08263   |
| 2010     | 1.606689                 | 3835.513                                  | 65.264                          | 2.28687  | 11.86466   |
| 2011     | 2.748406                 | 3873.461                                  | 65.562                          | 2.22175  | 10.92461   |
| 2012     | 3.507033                 | 3924.48                                   | 65.849                          | 2.13628  | 11.04063   |
| 2013     | 4.396457                 | 4006.328                                  | 66.117                          | 2.49344  | 11.51398   |
| 2014     | 4.674708                 | 4105.229                                  | 66.36                           | 2.46593  | 11.30066   |
| 2015     | 4.731147                 | 4207.01                                   | 66.577                          | 2.65002  | 13.18728   |
| 2016     | 5.526736                 | 4337.278                                  | 66.77                           | 3.00292  | 15.06348   |
| 2017     | 5.554277                 | 4495.951                                  | 66.947                          | 2.89952  | 14.54478   |
| 2018     | 5.836417                 | 4657.88                                   | 67.114                          | ..   | ..   |
| 2019     | 0.988829                 | 4596.194                                  | 67.273                          | 2.50755  | 11.59168   |
| 2020     | 0.525527                 | 4522.865                                  | ..                              | ..   | ..   |

# APPENDIX C. DATA OF INDIA

| India |                          |   |                                 |  |  |
|-------|--------------------------|---|---------------------------------|--|--|
| Year  | GDP growth<br>(annual %) | GNI per capita, PPP<br>(constant 2017 \$) | Total life expectancy<br>(year) | Government expenditure<br>on education(% of GDP) | Government expenditure on education<br>(% of government expenditure) |
| 1960  | ..                       | ..  | 41.422                          | ..   | ..   |
| 1961  | 3.722743                 | ..  | 42.027                          | ..   | ..   |
| 1962  | 2.931128                 | ..  | 42.637                          | ..   | ..   |
| 1963  | 5.994353                 | ..  | 43.252                          | ..   | ..   |
| 1964  | 7.45295                  | ..  | 43.873                          | ..   | ..   |
| 1965  | -2.63577                 | ..  | 44.5                            | ..   | ..   |
| 1966  | -0.05533                 | ..  | 45.136                          | ..   | ..   |
| 1967  | 7.825963                 | ..  | 45.779                          | ..   | ..   |
| 1968  | 3.387929                 | ..  | 46.428                          | ..   | ..   |
| 1969  | 6.5397                   | ..  | 47.081                          | ..   | ..   |
| 1970  | 5.15723                  | ..  | 47.737                          | ..   | ..   |
| 1971  | 1.64293                  | ..  | 48.398                          | ..   | ..   |
| 1972  | -0.5533                  | ..  | 49.061                          | ..   | ..   |
| 1973  | 3.295521                 | ..  | 49.722                          | ..   | ..   |
| 1974  | 1.185336                 | ..  | 50.374                          | ..   | ..   |
| 1975  | 9.149912                 | ..  | 51.012                          | ..   | ..   |
| 1976  | 1.663104                 | ..  | 51.63                           | ..   | ..   |
| 1977  | 7.254765                 | ..  | 52.222                          | ..   | ..   |
| 1978  | 5.712532                 | ..  | 52.786                          | ..   | ..   |
| 1979  | -5.23818                 | ..  | 53.319                          | ..   | ..   |
| 1980  | 6.735822                 | ..  | 53.814                          | ..   | ..   |
| 1981  | 6.006204                 | ..  | 54.268                          | ..   | ..   |
| 1982  | 3.475733                 | ..  | 54.686                          | ..   | ..   |
| 1983  | 7.288893                 | ..  | 55.074                          | ..   | ..   |
| 1984  | 3.820738                 | ..  | 55.441                          | ..   | ..   |
| 1985  | 5.254299                 | ..  | 55.801                          | ..   | ..   |
| 1986  | 4.776564                 | ..  | 56.169                          | ..   | ..   |
| 1987  | 3.965356                 | ..  | 56.553                          | ..   | ..   |
| 1988  | 9.627783                 | ..  | 56.963                          | ..   | ..   |
| 1989  | 5.947343                 | ..  | 57.4                            | ..   | ..   |
| 1990  | 5.533455                 | 1790.407                                  | 57.865                          | ..   | ..   |
| 1991  | 1.056831                 | 1768.859                                  | 58.353                          | ..   | ..   |
| 1992  | 5.482396                 | 1828.853                                  | 58.851                          | ..   | ..   |
| 1993  | 4.750776                 | 1880.995                                  | 59.349                          | ..   | ..   |
| 1994  | 6.658924                 | 1969.856                                  | 59.84                           | ..   | ..   |
| 1995  | 7.574492                 | 2082                                      | 60.32                           | ..   | ..   |
| 1996  | 7.549522                 | 2201.078                                  | 60.783                          | ..   | ..   |
| 1997  | 4.049821                 | 2249.545                                  | 61.233                          | 3.36136  | 13.32223   |
| 1998  | 6.184416                 | 2345.163                                  | 61.669                          | 3.57256  | 14.15927   |
| 1999  | 8.845756                 | 2509.046                                  | 62.093                          | 4.41539  | 16.95983   |
| 2000  | 3.840991                 | 2552.805                                  | 62.505                          | 4.32479  | 16.73051   |
| 2001  | 4.823966                 | 2634.935                                  | 62.907                          | ..   | ..   |
| 2002  | 3.803975                 | 2694.231                                  | 63.304                          | ..   | ..   |
| 2003  | 7.860381                 | 2856.486                                  | 63.699                          | 3.61341  | 12.4108  |
| 2004  | 7.922937                 | 3034.451                                  | 64.095                          | 3.35254  | 11.19686   |
| 2005  | 7.923431                 | 3222.757                                  | 64.5                            | 3.18875  | 11.20846   |
| 2006  | 8.060733                 | 3426.918                                  | 64.918                          | 3.14285  | 11.69371   |
| 2007  | 7.660815                 | 3646.929                                  | 65.35                           | ..   | ..   |
| 2008  | 3.086698                 | 3698.176                                  | 65.794                          | ..   | ..   |
| 2009  | 7.861889                 | 3933.116                                  | 66.244                          | 3.27825  | 11.1912  |
| 2010  | 8.497585                 | 4189.433                                  | 66.693                          | 3.37769  | 11.83368   |
| 2011  | 5.241315                 | 4361.091                                  | 67.13                           | 3.79618  | 13.56491   |
| 2012  | 5.456389                 | 4529.016                                  | 67.545                          | 3.8675   | 13.99212   |
| 2013  | 6.386106                 | 4758.303                                  | 67.931                          | 3.84467  | 14.05018   |
| 2014  | 7.410228                 | 5056.666                                  | 68.286                          | ..   | ..   |
| 2015  | 7.996254                 | 5401.491                                  | 68.607                          | 3.28573  | 12.53117   |
| 2016  | 8.256306                 | 5732.914                                  | 68.897                          | 3.45098  | 12.75355   |
| 2017  | 6.795383                 | 6116.06                                   | 69.165                          | ..   | ..   |
| 2018  | 6.532989                 | 6449.186                                  | 69.416                          | ..   | ..   |
| 2019  | 4.041554                 | 6650.054                                  | 69.656                          | ..   | ..   |
| 2020  | -7.96461                 | 6060.015                                  | ..                              | ..   | ..   |