Births in the United States, 2021

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This report presents selected highlights from 2021 final birth data on key demographic, healthcare use, and infant health indicators. The number of births, general fertility rates (GFRs) (births per 1,000 females aged 15–44), age-specific birth rates (births per 1,000 females in specified age group), vaginal birth after cesarean (VBAC) delivery rates, and preterm (less than 37 weeks of gestation) birth rates are presented. Results for 2019, 2020, and 2021 are shown for all births to provide context for changes in birth patterns noted during 2020, the first year of the COVID-19 pandemic (1,2). VBAC and preterm birth rates are shown for the three largest race and Hispanic-origin groups: non-Hispanic White, non-Hispanic Black, and Hispanic.

The number of births and the GFR increased from 2020 to 2021.

Figure 1. Number of live births and general fertility rates: United States, 2019–2021

Number of births (millions)

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Births</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>3,747,540</td>
</tr>
<tr>
<td>2020</td>
<td>3,613,647</td>
</tr>
<tr>
<td>2021</td>
<td>3,664,292</td>
</tr>
</tbody>
</table>

Rate per 1,000 women aged 15–44

<table>
<thead>
<tr>
<th>Year</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>58.3</td>
</tr>
<tr>
<td>2020</td>
<td>55.7</td>
</tr>
<tr>
<td>2021</td>
<td>56.3</td>
</tr>
</tbody>
</table>

NOTES: Significant decrease in the number of births and the general fertility rate from 2019 to 2020 ($p < 0.05$). Significant increase in the number of births and the general fertility rate from 2020 to 2021 ($p < 0.05$). Rates for 2020 have been revised and may differ from those published in "Births: Final Data for 2020." Rates are based on counts enumerated as of April 1 for census year 2020 and estimated as of July 1 for 2019 and 2021. Access data table for Figure 1 at: https://www.cdc.gov/nchs/data/databriefs/db442-tables.pdf#1

In 2021, 3,664,292 births were registered in the United States, an increase of 1% from 2020 (3,613,647) (Figure 1).

The increase in births in 2021 followed a 4% decrease in births from 2019 to 2020. The number of births in 2021 was lower than the number in 2019 (3,747,540).

The GFR for the United States increased 1% in 2021 to 56.3 per 1,000 females aged 15–44 from 55.7 in 2020.

As with the number of births, the 2021 increase in the GFR followed a 4% decrease in the rate from 2019 to 2020. The 2021 GFR was lower than in 2019 (58.3).

Birth rates from 2020 to 2021 declined for females aged 15–24 and rose for women aged 25–44.

- The birth rate for teenagers aged 15–19 declined 7% from 2020 to 2021 (15.0 to 13.9 per 1,000 births); this rate declined by 10% from 2019 to 2020 (Figure 2).

- The birth rate for women aged 20–24 declined 3% from 63.3 in 2020 to 61.5 in 2021, following a decline of 5% from 2019 to 2020. The birth rate for women aged 25–29 rose 2% in 2021 to 93.0 from 90.9 in 2020, following a decline of 3% from 2019 to 2020.

Figure 2. Selected age-specific birth rates: United States, 2019–2021

<table>
<thead>
<tr>
<th>Age of mother</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>15–19</td>
<td>16.7</td>
<td>15.0</td>
<td>13.9</td>
</tr>
<tr>
<td>20–24</td>
<td>66.6</td>
<td>63.3</td>
<td>61.5</td>
</tr>
<tr>
<td>25–29</td>
<td>93.7</td>
<td>90.5</td>
<td>93.0</td>
</tr>
<tr>
<td>30–34</td>
<td>98.3</td>
<td>94.9</td>
<td>97.6</td>
</tr>
<tr>
<td>35–39</td>
<td>52.8</td>
<td>51.3</td>
<td>53.7</td>
</tr>
<tr>
<td>40–44</td>
<td>12.0</td>
<td>11.8</td>
<td>12.0</td>
</tr>
</tbody>
</table>

1Significant decrease from 2020 to 2021 (p < 0.05).
2Significant increase from 2020 to 2021 (p < 0.05).

NOTES: Significant decreases from 2019 to 2020 for all age groups (p < 0.05). All differences between age groups are significant for all years (p < 0.05). Rates for 2020 have been revised and may differ from those published in “Births: Final Data for 2020.” Rates are based on counts enumerated as of April 1 for census year 2020 and estimated as of July 1 for 2019 and 2021. Access data table for Figure 2 at: https://www.cdc.gov/nchs/data/databriefs/db442-tables.pdf.2.

In 2021, birth rates for women aged 30–34 rose 3% to 97.6 from 94.9 in 2020, and the rate for women aged 35–39 rose 5% to 53.7 from 51.3. Rates for women in both age groups declined 3% from 2019 to 2020.

The birth rate for women aged 40–44 rose 2% in 2021 from 11.8 to 12.0; the rate declined 2% from 2019 to 2020.

**Vaginal birth after cesarean delivery increased by 2% in the United States in 2021.**

- The VBAC rate increased 2% in 2021 to 14.2% of women with a previous cesarean delivery from 13.9% in 2020; this follows a 1% increase from 2019 (13.8%) to 2020 (Figure 3).

- For non-Hispanic White women, the VBAC rate increased 3% in 2021 from 14.0% in 2020 to 14.4% in 2021; the increase from 2019 (13.9%) to 2020 was not significant.

- The VBAC rate for non-Hispanic Black women did not change significantly from 2020 (13.7) to 2021 (13.8), or from 2019 (13.6) to 2020.

- The VBAC rate was stable among Hispanic women from 2020 (13.4%) to 2021 (13.5%), following a 3% increase from 2019 (13.1%) to 2020.

Figure 3. Vaginal births after cesarean delivery, by race and Hispanic origin of mother: United States, 2019–2021

![Graph showing VBAC rates by race and Hispanic origin from 2019 to 2021.](https://www.cdc.gov/nchs/data/databriefs/db442-tables.pdf#3)
The preterm birth rate rose between 2020 and 2021.

- The percentage of newborns delivered preterm rose 4% in 2021, from 10.09% in 2020 to 10.49% of all births. This increase follows a 1% decline in preterm births from 2019 to 2020 (10.23% to 10.09%) (Figure 4).

- The preterm rate for non-Hispanic White mothers also rose 4% in 2021 to 9.50% from 9.10% in 2020. The preterm rate declined 2% for this group from 2019 (9.26%) to 2020.

- The rate of preterm births among non-Hispanic Black mothers rose 3% in 2021 to 14.75% from 14.36% in 2020. The rate did not change significantly from 2019 (14.39%) to 2020.

- The preterm rate for births to Hispanic mothers rose 4% in 2021, to 10.23%, and had declined 1% from 2019 (9.97%) to 2020 (9.84%).

Figure 4. Percentage of preterm births, by race and Hispanic origin of mother: United States, 2019–2021

NOTES: Significant declines from 2019 to 2020 for all groups except non-Hispanic Black (p < 0.05). Significant increases for all groups from 2020 to 2021 (p < 0.05). Significant difference between all race and Hispanic-origin groups for all years (p < 0.05). Preterm is less than 37 completed weeks of gestation. Access data table for Figure 4 at: https://www.cdc.gov/nchs/data/databriefs/db442_tables.pdf#4.

Summary

United States birth certificate data for 2021 show shifts in some childbearing and perinatal health indicators from the changes observed between 2019 and 2020, the first year of the COVID-19 pandemic. Following declines of 4% from 2019 to 2020, the number of births and the GFR each rose 1% in 2021. From 2014 to 2019, the number of births and the GFR showed average annual declines of 1% and 2%, respectively (2). Age-specific birth rates declined from 2020 to 2021 for females aged 15–24 and rose for women aged 25–44, compared with declines in rates for all females aged 15–44 from 2019 to 2020.

The VBAC rate, which has increased every year since national data became available in 2016 (2), continued to rise in 2021 (up 2%), with most of the increase occurring among non-Hispanic White women. Following a 1% decline from 2019 to 2020, the preterm birth rate rose 4% in 2021 to the highest level reported in at least 14 years (10.49%) (2,3); increases for 2021 were seen for the three largest race and Hispanic-origin groups.

Provisional birth data for the first quarter of 2022 suggest a continuation of the 2020–2021 trends for each of these natality indicators: continued increases in the number of births and the GFR, continued declines in birth rates for females under age 25, and increases in rates for older mothers and in VBAC and preterm birth rates (4,5).

Definitions

General fertility rate (GFR): Number of births per 1,000 females aged 15–44.

Age-specific birth rates: Births per 1,000 females in the specified age group.

Preterm birth rate: Births delivered prior to 37 completed weeks of gestation per 100 births. Gestational age is based on the obstetric estimate of gestation.

Vaginal birth after cesarean (VBAC) delivery rate: Number of births to females having a vaginal delivery per 100 births to females with a previous cesarean delivery.
Data source and methods

This report uses data from the Natality Data File from the National Vital Statistics System. The vital statistics natality file is based on information from birth certificates and includes information for all births occurring in the United States. This Data Brief accompanies the release of the 2021 natality public use file (6). More detailed analysis of the topics presented in this report plus many others such as births by age of mother; tobacco use during pregnancy; pregnancy risk factors; prenatal care timing and use; receipt of food from the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC); maternal body mass index; and breastfeeding; is possible using the annual natality files (6).

References to increases or decreases in rates or percentages indicate that differences are statistically significant at the 0.05 level based on a two-tailed z test. Computations exclude records for which information is unknown.

Rates for 2020 have been revised and may differ from those published in “Births: Final Data for 2020” (2). The rates for 2020 are based on counts enumerated as of April 1 for census year 2020 (7). Rates for 2019 and 2021 are based on population estimates as of July 1; the population estimate for 2021 is based on the 2020 census as of July 1, 2021 (7).

About the authors

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References


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