**SUPPLEMENTARY TABLE 3. Estimated vaccination coverage with ≥1 HPV vaccine\* among adolescents aged 13–17 years by HHS Region, state, selected local area, and territory — National Immunization Survey–Teen (NIS-Teen), United States, 2013 - 2017.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Region** | **NIS-TEEN 2013** | **NIS-TEEN 2014** | **NIS-TEEN 2015** | **NIS-TEEN 2016** | **NIS-TEEN 2017** | **Most current 5-year annual average increase†** |
| **(n = 18,948)** | **(n = 20,827)** | **(n = 21,875)** | **(n = 20,475)** | **(n = 20,949)** |
| **% (95% CI)§** | **% (95% CI)§** | **% (95% CI)§** | **% (95% CI)§** | **% (95% CI)§** | **% (95% CI)§** |
| **United States Overall** | **44.9 (43.5–46.2)** | **50.6 (49.3–52.0)** | **56.1 (54.9–57.4)** | **60.4 (59.2–61.6)** | **65.5 (64.3–66.7)** | **5.1 (4.6–5.5)** |
| **Region I** | 56.2 (52.9–59.4) | 60.8 (57.4–64.1) | 69.3 (65.9–72.5) | 69.9 (66.7–72.9) | 78.2 (75.4–80.8) | 5.3 (3.4–7.3) |
| **Connecticut** | 54.0 (47.5–60.3) | 56.7 (50.3–62.9) | 68.0 (62.1–73.4) | 62.2 (55.8–68.2) | 71.3 (64.9–76.9) | 4.0 (–0.4–8.5) |
| **Maine** | 50.7 (44.6–56.7) | 59.8 (53.5–65.8) | 65.9 (59.9–71.4) | 70.0 (63.9–75.4) | 75.8 (70.2–80.6) | 6.0 (4.4–7.5) |
| **Massachusetts** | 56.9 (50.9–62.7) | 61.5 (55.3–67.4) | 68.1 (61.6–74.0) | 71.4 (65.7–76.5) | 81.9 (76.9–85.9) | 6.2 (4.1–8.2) |
| **New Hampshire** | 54.2 (48.1–60.2) | 63.3 (57.8–68.5) | 71.9 (65.7–77.4) | 69.9 (63.7–75.5) | 74.2 (68.5–79.2) | 4.5 (0.8–8.3) |
| **Rhode Island** | 72.5 (66.2–78.0) | 72.4 (66.7–77.4) | 84.2 (79.9–87.7) | 88.9 (84.7–92.1) | 88.6 (83.3–92.4) | 4.9 (0.8–8.9) |
| **Vermont** | 50.4 (44.0–56.8) | 56.8 (50.2–63.1) | 67.4 (61.6–72.6) | 70.3 (64.6–75.5) | 78.7 (73.2–83.3) | 7.0 (5.1–8.9) |
| **Region II** | 45.8 (42.1–49.6) | 50.1 (46.0–54.1) | 60.8 (57.1–64.3) | 67.2 (63.8–70.5) | 67.6 (64.1–71.0) | 6.0 (2.9–9.1) |
| **New Jersey** | 38.1 (31.8–44.8) | 41.6 (34.9–48.6) | 59.7 (53.5–65.6) | 58.5 (52.4–64.3) | 65.8 (59.8–71.3) | 7.1 (2.3–11.9) |
| **New York** | 49.6 (45.1–54.1) | 54.2 (49.2–59.2) | 61.3 (56.8–65.6) | 71.5 (67.3–75.4) | 68.5 (64.0–72.7) | 5.5 (1.7–9.4) |
| **NY-City of New York** | 55.0 (48.2–61.5) | 57.3 (50.1–64.1) | 68.9 (62.9–74.3) | 76.8 (70.8–81.9) | 73.3 (66.9–78.9) | 5.6 (0.8–10.4) |
| **NY-Rest of State** | 46.2 (40.3–52.2) | 52.3 (45.4–59.1) | 56.4 (50.1–62.4) | 68.1 (62.3–73.5) | 65.5 (59.3–71.2) | 5.5 (1.8–9.2) |
| **Region III** | 44.8 (41.2–48.5) | 53.3 (49.8–56.7) | 57.0 (53.5–60.3) | 61.2 (57.9–64.4) | 70.3 (67.0–73.3) | 5.9 (4.1–7.7) |
| **Delaware** | 51.2 (44.9–57.4) | 61.0 (54.2–67.4) | 65.2 (59.4–70.7) | 70.7 (64.9–75.8) | 75.3 (69.3–80.5) | 5.8 (4.1–7.4) |
| **Dist. of Columbia** | 59.9 (49.4–69.6) | 71.7 (64.6–77.8) | 74.7 (68.9–79.8) | 79.2 (73.5–84.0) | 91.9 (87.6–94.8) | 7.5 (4.0–10.9) |
| **Maryland** | 40.6 (33.3–48.2) | 52.3 (45.3–59.1) | 60.3 (53.7–66.7) | 64.5 (58.1–70.5) | 69.2 (62.1–75.6) | 6.8 (3.9–9.7) |
| **Pennsylvania** | 51.0 (45.5–56.6) | 56.9 (51.2–62.3) | 59.0 (53.7–64.1) | 64.4 (59.3–69.2) | 67.3 (62.2–72.1) | 4.0 (3.0–5.0) |
| **PA-Philadelphia** | 67.1 (60.6–73.0) | 71.5 (64.9–77.3) | 79.4 (74.0–83.9) | 80.7 (75.4–85.0) | 84.9 (80.0–88.7) | 4.3 (2.5–6.2) |
| **PA-Rest of State** | 49.0 (42.8–55.2) | 55.0 (48.7–61.1) | 56.3 (50.4–62.0) | 62.3 (56.6–67.6) | 65.0 (59.2–70.4) | 3.9 (2.7–5.2) |
| **Virginia** | 38.3 (30.3–47.0) | 47.5 (40.1–55.1) | 50.4 (42.5–58.3) | 53.6 (46.0–61.0) | 75.6 (68.4–81.6) | 8.5 (2.1–14.8) |
| **West Virginia** | 38.6 (32.6–45.0) | 50.2 (43.7–56.6) | 53.5 (47.4–59.5) | 54.2 (47.5–60.8) | 60.9 (54.6–66.9) | 4.9 (1.7–8.1) |
| **Region IV** | 39.8 (37.0–42.7) | 47.3 (44.5–50.1) | 51.4 (48.6–54.1) | 55.8 (53.1–58.5) | 60.0 (57.3–62.6) | 4.9 (3.7–6.0) |
| **Alabama** | 36.0 (30.2–42.3) | 40.9 (35.0–47.1) | 48.4 (42.1–54.7) | 51.7 (45.3–58.0) | 58.0 (52.0–63.9) | 5.5 (4.5–6.4) |
| **Florida** | 38.0 (31.4–45.0) | 48.9 (41.7–56.2) | 53.7 (46.7–60.6) | 55.9 (49.2–62.5) | 59.8 (53.1–66.1) | 5.1 (2.2–7.9) |
| **Georgia** | 46.4 (38.7–54.3) | 53.0 (46.3–59.6) | 52.6 (46.3–58.9) | 67.3 (60.9–73.2) | 64.3 (57.5–70.6) | 5.1 (0.2–9.9) |
| **Kentucky** | 32.3 (26.4–39.0) | 37.6 (31.3–44.3) | 45.8 (39.7–52.0) | 48.0 (41.7–54.4) | 49.6 (43.5–55.6) | 4.5 (2.0–6.9) |
| **Mississippi** | 31.8 (25.9–38.3) | 35.9 (29.9–42.4) | 45.5 (39.5–51.5) | 45.6 (39.4–52.0) | 49.6 (43.4–55.9) | 4.5 (2.0–7.1) |
| **North Carolina** | 44.9 (38.5–51.5) | 57.9 (51.5–64.0) | 56.7 (50.5–62.7) | 57.5 (51.0–63.8) | 66.8 (60.4–72.6) | 4.3 (0.0–8.6) |
| **South Carolina** | 40.4 (33.5–47.7) | 40.5 (34.2–47.2) | 44.2 (38.1–50.5) | 44.2 (37.4–51.3) | 59.6 (52.7–66.0) | 4.3 (–0.7–9.4) |
| **Tennessee** | 38.0 (31.9–44.5) | 38.9 (32.6–45.6) | 48.7 (42.3–55.1) | 55.3 (48.5–61.9) | 56.1 (49.3–62.6) | 5.3 (2.4–8.1) |
| **Region V** | 41.6 (39.1–44.2) | 50.5 (48.0–53.1) | 54.4 (51.8–56.9) | 58.4 (55.8–61.0) | 65.5 (63.2–67.8) | 5.6 (4.1–7.1) |
| **Illinois** | 42.4 (37.2–47.8) | 54.3 (49.5–59.0) | 53.0 (48.5–57.4) | 63.5 (58.6–68.1) | 66.1 (61.5–70.4) | 5.5 (2.1–9.0) |
| **IL-City of Chicago** | 51.7 (43.3–60.1) | 71.4 (64.5–77.5) | 69.4 (63.0–75.1) | 73.1 (63.2–81.2) | 81.9 (73.9–87.8) | 5.8 (–0.3–11.9) |
| **IL-Rest of State** | 40.2 (34.1–46.6) | 50.4 (44.8–56.0) | 49.4 (44.2–54.6) | 61.4 (55.8–66.6) | 62.7 (57.4–67.7) | 5.5 (2.0–9.1) |
| **Indiana** | 35.7 (30.3–41.5) | 41.9 (35.8–48.3) | 48.4 (42.1–54.8) | 45.2 (38.9–51.7) | 59.3 (52.8–65.5) | 5.1 (1.1–9.0) |
| **Michigan** | 46.5 (40.1–53.0) | 48.7 (42.0–55.4) | 59.8 (53.7–65.6) | 61.3 (54.2–67.9) | 67.3 (61.1–73.0) | 5.4 (3.0–7.8) |
| **Minnesota** | 39.7 (33.9–45.9) | 55.2 (48.2–62.1) | 61.2 (54.9–67.1) | 59.1 (53.0–65.0) | 68.1 (61.9–73.7) | 6.2 (1.2–11.2) |
| **Ohio** | 39.4 (33.3–45.8) | 48.6 (42.5–54.8) | 52.2 (45.4–58.8) | 56.2 (49.5–62.8) | 64.1 (58.4–69.3) | 5.7 (4.0–7.4) |
| **Wisconsin** | 44.6 (38.3–51.1) | 55.0 (48.2–61.6) | 53.3 (47.3–59.2) | 61.9 (55.5–67.9) | 69.2 (63.0–74.8) | 5.7 (2.6–8.8) |
| **Region VI** | 43.9 (40.4–47.4) | 45.4 (42.0–48.9) | 52.1 (49.5–54.8) | 52.0 (49.3–54.8) | 59.7 (57.1–62.2) | 3.9 (1.7–6.1) |
| **Arkansas** | 30.1 (24.5–36.4) | 44.7 (38.4–51.1) | 53.6 (47.5–59.5) | 54.4 (48.1–60.5) | 61.1 (54.8–67.0) | 7.3 (2.8–11.7) |
| **Louisiana** | 42.7 (36.2–49.4) | 48.9 (42.3–55.5) | 54.8 (48.9–60.6) | 60.5 (54.4–66.3) | 69.1 (63.3–74.4) | 6.5 (5.5–7.5) |
| **New Mexico** | 49.5 (43.5–55.6) | 50.7 (44.3–57.2) | 60.4 (54.5–65.9) | 60.5 (54.4–66.3) | 66.9 (60.9–72.4) | 4.4 (2.1–6.8) |
| **Oklahoma** | 49.1 (43.5–54.7) | 54.0 (47.6–60.3) | 55.5 (48.8–62.0) | 56.9 (49.5–63.9) | 58.5 (52.1–64.6) | 2.2 (1.0–3.5) |
| **Texas** | 44.4 (39.5–49.4) | 43.5 (38.7–48.3) | 50.6 (47.0–54.1) | 49.3 (45.6–53.0) | 57.8 (54.3–61.2) | 3.4 (0.3–6.5) |
| **TX-Bexar County** | 42.4 (36.3–48.8) | 41.7 (35.4–48.3) | 48.2 (42.0–54.5) | 53.4 (46.7–59.9) | 62.9 (56.6–68.8) | 5.3 (2.2–8.4) |
| **TX-City of Houston** | 49.8 (42.5–57.1) | 60.1 (53.1–66.7) | 62.7 (55.5–69.4) | 62.6 (53.6–70.9) | 73.0 (63.9–80.4) | 4.9 (1.5–8.3) |
| **TX-Dallas County** | NA | NA | NA | 45.7 (38.5–53.1) | 54.5 (46.9–62.0) | ––¶ |
| **TX-El Paso County** | NA | 62.6 (55.1–69.6) | 67.9 (62.7–72.6) | 79.8 (73.6–84.9) | 82.8 (77.2–87.2) | 7.3 (1.9–12.6) |
| **TX-Travis County** | NA | NA | NA | NA | 69.7 (63.3–75.4) | ––¶ |
| **TX-Rest of State** | 44.1 (38.5–49.8) | 41.4 (35.9–47.1) | 48.6 (44.1–53.0) | 46.8 (42.0–51.6) | 54.5 (49.9–59.1) | 2.7 (–0.5–5.9) |
| **Region VII** | 37.2 (33.7–40.8) | 40.2 (36.7–43.8) | 52.3 (48.7–55.9) | 55.3 (51.8–58.8) | 61.5 (58.0–64.8) | 6.4 (4.0–8.7) |
| **Iowa** | 42.8 (36.8–49.0) | 44.5 (37.8–51.4) | 57.2 (51.0–63.1) | 60.7 (54.8–66.3) | 71.4 (65.6–76.5) | 7.3 (4.5–10.1) |
| **Kansas** | 32.5 (26.5–39.1) | 35.5 (29.4–42.1) | 43.2 (37.3–49.3) | 51.8 (45.2–58.3) | 52.4 (46.0–58.8) | 5.6 (3.2–8.0) |
| **Missouri** | 32.6 (26.3–39.5) | 37.5 (31.3–44.1) | 51.8 (44.7–58.8) | 51.6 (45.0–58.1) | 57.8 (51.3–64.0) | 6.4 (3.0–9.9) |
| **Nebraska** | 50.4 (44.0–56.8) | 49.3 (42.7–55.9) | 60.6 (54.9–66.1) | 63.7 (57.2–69.8) | 71.0 (64.8–76.5) | 5.6 (2.6–8.5) |
| **Region VIII** | 37.8 (34.5–41.3) | 47.4 (44.1–50.8) | 54.8 (51.4–58.2) | 57.4 (53.6–61.0) | 65.7 (62.4–68.8) | 6.6 (4.6–8.6) |
| **Colorado** | 45.9 (39.8–52.2) | 51.4 (45.3–57.3) | 64.2 (58.2–69.9) | 63.5 (56.5–69.9) | 72.1 (66.2–77.3) | 6.5 (3.3–9.7) |
| **Montana** | 34.1 (28.3–40.5) | 44.9 (38.4–51.5) | 50.4 (44.6–56.2) | 55.3 (48.9–61.5) | 65.5 (58.9–71.5) | 7.4 (5.4–9.3) |
| **North Dakota** | 45.8 (39.4–52.4) | 49.0 (42.3–55.7) | 66.3 (60.0–72.1) | 67.6 (60.9–73.5) | 72.5 (67.0–77.4) | 7.0 (2.7–11.2) |
| **South Dakota** | 37.6 (31.5–44.1) | 47.3 (40.7–54.0) | 46.0 (39.8–52.3) | 55.9 (49.2–62.3) | 63.2 (56.7–69.2) | 6.0 (2.9–9.1) |
| **Utah** | 26.0 (20.8–32.0) | 43.4 (37.4–49.6) | 44.2 (38.0–50.7) | 49.7 (43.1–56.2) | 58.8 (52.6–64.8) | 7.3 (3.0–11.7) |
| **Wyoming** | 35.2 (29.5–41.4) | 39.5 (34.1–45.1) | 42.2 (35.8–48.9) | 43.4 (37.5–49.5) | 46.9 (40.8–53.1) | 2.7 (1.8–3.6) |
| **Region IX** | 55.0 (49.7–60.1) | 58.2 (52.8–63.4) | 62.0 (56.4–67.2) | 70.6 (65.6–75.2) | 70.4 (65.4–75.0) | 4.3 (2.1–6.5) |
| **Arizona** | 52.9 (46.8–59.0) | 49.3 (43.0–55.6) | 59.7 (53.9–65.1) | 63.1 (56.6–69.2) | 65.0 (58.4–71.2) | 3.8 (0.3–7.2) |
| **California** | 56.6 (49.9–63.0) | 60.5 (53.6–67.0) | 62.5 (55.4–69.1) | 72.6 (66.1–78.2) | 71.9 (65.4–77.5) | 4.3 (1.7–6.9) |
| **Hawaii** | 45.2 (38.6–51.9) | 58.4 (52.2–64.3) | 66.8 (60.9–72.2) | 64.8 (58.3–70.8) | 69.4 (63.0–75.1) | 5.3 (0.1–10.5) |
| **Nevada** | 41.7 (35.6–48.1) | 48.7 (42.5–54.9) | 57.9 (51.5–64.1) | 64.9 (58.5–70.8) | 64.9 (58.3–70.9) | 6.3 (3.2–9.3) |
| **Region X** | 46.1 (42.2–50.0) | 54.1 (50.2–58.0) | 57.2 (53.6–60.8) | 62.6 (58.8–66.3) | 69.9 (66.3–73.3) | 5.6 (4.3–7.0) |
| **Alaska** | 38.9 (32.9–45.2) | 43.1 (37.1–49.4) | 49.1 (42.9–55.2) | 61.1 (55.0–66.9) | 64.5 (58.4–70.1) | 6.9 (4.5–9.3) |
| **Idaho** | 43.9 (36.8–51.2) | 45.3 (38.6–52.3) | 50.6 (44.2–56.9) | 57.2 (50.9–63.3) | 62.4 (55.7–68.6) | 5.0 (3.3–6.6) |
| **Oregon** | 49.5 (43.6–55.3) | 50.5 (44.1–56.8) | 64.1 (58.1–69.8) | 61.7 (55.2–67.9) | 71.2 (65.4–76.4) | 5.5 (1.8–9.2) |
| **Washington** | 45.6 (39.2–52.0) | 59.6 (53.2–65.7) | 56.1 (50.2–61.8) | 64.8 (58.5–70.6) | 71.9 (65.8–77.3) | 5.8 (1.6–9.9) |
| **Range\*\*** | **(26.0–72.5)** | **(35.5–72.4)** | **(42.2–84.2)** | **(43.4–88.9)** | **(46. –91.9)** | **(2.2–8.5)** |
| **Territory** |  |  |  |  |  |  |
| **Guam** | 44.6 (38.8–50.5) | NA | 60.2 (54.5–65.7) | 67.4 (62.4–72.1) | 67.5 (61.4–73.0) | 6.2 (0.8–11.5) |

Abbreviations: CI = confidence interval; HHS = U.S. Department of Health and Human Services; HPV = human papillomavirus; NA = not available (Data not collected for that survey year).

\* HPV vaccine, nine-valent (9vHPV), quadrivalent (4vHPV), or bivalent (2vHPV) in females and males combined.

† The most current 5-year annual average increase was computed by using weighted linear regression for each awardee, with weights inverse proportional to the estimated variance of each estimate. Estimates with confidence intervals that did not include zero were considered statistically significantly different from zero.

§ Estimates with 95% confidence intervals >20 might be unreliable.

¶ Estimates for jurisdictions have been suppressed if data for either 2013 or 2017 are not available or if data are available for fewer than three of the five years.

\*\* Range excludes selected local areas and territories.