Supplemental Digital Content 1. Prevalencea of selected health behaviors among all workers in the construction industry, workers employed in selected occupations in the construction industry, and workers employed in all other industries — Behavioral Risk Factor Surveillance System (BRFSS), 32 states, 2013‒2016

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Occupation**  **(2002 US Census codeb)** | **Current smoker** | | **Current**  **smokeless tobacco user** | | **Binge drinker in past 30 days** | | **No leisure-time physical activity**  **in past 30 days** | | **< 7 hours of sleep per dayc** | | **Does not always use seatbelt** | |
| **Unadjusted**  **% (95% CI)** | **Adjustedd**  **% (95% CI)** | **Unadjusted**  **% (95% CI)** | **Adjustedd**  **% (95% CI)** | **Unadjusted**  **% (95% CI)** | **Adjustedd**  **% (95% CI)** | **Unadjusted**  **% (95% CI)** | **Adjustedd**  **% (95% CI)** | **Unadjusted**  **% (95% CI)** | **Adjustedd**  **% (95% CI)** | **Unadjusted**  **% (95% CI)** | **Adjustedd**  **% (95% CI)** |
| **Construction industry** | 26.1 (24.6, 27.6)g | 20.2 (18.9, 21.5)g | 9.4 (8.3, 10.6)g | 5.4 (4.7, 6.1)g | 30.4 (28.9, 32.1)g | 25.5 (24.0, 27.0)g | 26.9 (25.3, 28.5)g | 23.4 (22.0, 24.9)g | 34.3 (32.6, 36.1)f | 32.8 (31.1, 34.6)g | 20.2 (18.5, 21.9)g | 16.0 (14.7, 17.3)g |
| **Selected occupationse** | 27.9 (26.2, 29.7)g | 20.9 (19.4, 22.4)g | 10.3 (9.0, 11.7)g | 5.5 (4.8, 6.4)g | 31.4 (29.7, 33.3)g | 25.7 (24.1, 27.4)g | 28.3 (26.5, 30.1)g | 24.1 (22.5, 25.8)g | 34.4 (32.6, 36.3) | 32.5 (30.7, 34.3)g | 21.9 (20.0, 24.0)g | 16.8 (15.3, 18.4)g |
| Construction managers  (0220) | 19.0 (16.2, 22.2)f | 16.8 (14.2, 19.8) | 11.1 (8.1, 15.1)g | 6.7 (4.9, 9.1)g | 28.7 (24.8, 32.9)g | 25.1 (21.7, 28.8)f | 21.7 (18.2, 25.7) | 22.3 (18.9, 26.1) | 31.0 (26.9, 35.4)f | 31.3 (27.1, 35.7)f | 19.4 (16.2, 23.0)g | 16.3 (13.6, 19.4)g |
| First-line supervisors/  managers of construction  & extraction workers  (6200) | 23.6 (19.3, 28.5)g | 18.8 (15.2, 23.0) | 6.5 (5.0, 8.4)g | 3.6 (2.7, 4.7) | 29.9 (25.0, 35.3)g | 26.2 (21.8, 31.1)f | 24.0 (19.6, 29.1) | 22.1 (18.0, 26.8) | 33.8 (28.2, 39.9) | 33.5 (28.1, 39.4) | 19.0 (15.8, 22.5)g | 15.0 (12.3, 18.1)f |
| Brick masons, block  masons, & stone masons  (6220) | 25.3 (16.8, 36.2)f | 18.8 (13.1, 26.2) | 11.0 (6.5, 17.9)g | 6.3 (4.0, 9.8)f | 26.8 (17.8, 38.3) | 26.2 (19.2, 34.7) | 29.1 (19.2, 41.4) | 26.4 (19.5, 34.8) | 42.1 (26.6, 59.3) | 32.9 (23.0, 44.6) | 18.7 (12.3, 27.3)f | 16.0 (11.6, 21.6) |
| Carpenters (6230) | 28.3 (24.4, 32.4)g | 20.7 (17.6, 24.2)f | 8.3 (6.6, 10.3)g | 4.3 (3.5, 5.4) | 33.1 (28.7, 37.8)g | 27.3 (23.4, 31.5)g | 36.0 (31.4, 40.9)g | 30.0 (25.9, 34.3)g | 30.5 (26.5, 34.8)f | 28.7 (24.9, 32.8)g | 20.9 (17.9, 24.4)g | 15.6 (13.4, 18.2)g |
| Carpet, floor, & tile  Installers & finishers  (6240) | 34.7 (21.7, 50.5)f | 24.8 (14.6, 39.0) | 3.3 (1.9, 5.7) | 1.6 (0.9, 2.9)f | 49.5 (35.9, 63.2)g | 42.3 (29.3, 56.5)g | 19.6 (12.6, 29.1) | 15.7 (10.4, 23.0) | 43.2 (30.7, 56.6) | 39.4 (26.7, 53.6) | 21.1 (11.6, 35.2)f | 16.8 (9.5, 27.8) |
| Cement masons, concrete  finishers, & terrazzo  workers (6250) | 32.2 (17.1, 52.2)f | 23.6 (12.7, 39.6) | \*\* | \*\* | 35.2 (18.9, 55.8) | 28.8 (13.2, 51.9)\* | 29.7 (14.9, 50.5)\* | 21.0 (11.0, 36.4)\* | 38.3 (22.8, 56.5) | 34.9 (20.7, 52.5) | 28.6 (13.7, 50.3)\*f | 23.0 (12.1, 39.3)\*f |
| Construction laborers  (6260) | 27.6 (24.6, 30.7)g | 19.9 (17.3, 22.7)f | 9.8 (7.5, 12.7)g | 5.3 (4.0, 7.1)f | 28.9 (25.4, 32.6)g | 22.6 (19.3, 26.1) | 28.1 (24.9, 31.5)g | 22.6 (20.0, 25.5) | 35.1 (31.3, 39.0) | 33.2 (29.5, 37.1) | 22.5 (17.8, 28.0)g | 17.2 (13.7, 21.4)f |
| Operating engineers &  other construction  equipment operators  (6320) | 33.5 (25.1, 43.2)g | 22.5 (15.8, 31.1) | 26.4 (18.2, 36.6)g | 12.1 (7.7, 18.5)g | 37.7 (29.1, 47.2)g | 31.2 (23.1, 40.7)f | 21.9 (16.3, 28.7) | 19.2 (14.3, 25.2) | 31.1 (24.0, 39.3) | 29.6 (22.4, 38.0) | 34.9 (26.6, 44.2)g | 26.4 (20.1, 33.7)g |
| Drywall installers, ceiling  tile installers, & tapers  (6330) | 37.2 (23.7, 53.0)g | 26.8 (16.9, 39.7)f | \*\* | \*\* | 42.6 (28.6, 57.8)g | 35.0 (23.8, 48.1)f | 43.3 (29.9, 57.7)g | 31.9 (21.4, 44.5)f | 28.6 (18.5, 41.5) | 27.0 (17.4, 39.3) | 21.5 (12.3, 34.6)f | 17.9 (10.4, 29.0) |
| Electricians (6350) | 29.7 (20.7, 40.5)g | 23.1 (16.4, 31.5)f | 14.1 (6.3, 28.5)\*g | 7.2 (3.3, 15.1)\* | 33.5 (26.6, 41.2)g | 27.0 (21.9, 32.9)f | 32.7 (22.6, 44.6)f | 31.0 (22.2, 41.4)f | 35.2 (28.2, 43.1) | 32.2 (24.9, 40.6) | 18.7 (14.7, 23.5)g | 14.0 (11.3, 17.3) |
| Glaziers (6360) | 34.4 (20.0, 52.4)f | 23.2 (12.6, 38.8) | 19.8 (9.1, 37.8)\*g | 9.5 (4.5, 19.1)\*f | 26.9 (15.6, 42.3) | 19.9 (10.9, 33.6) | 36.3 (20.9, 55.0)f | 34.0 (18.6, 53.7) | \*\* | \*\* | 24.2 (12.4, 41.9)\*f | 18.4 (9.2, 33.4)\* |
| Insulation workers (6400) | \*\* | \*\* | \*\* | \*\* | 60.7 (22.2, 89.4)\*f | 48.2 (17.5, 80.4)\* | \*\* | \*\* | \*\* | \*\* | \*\* | \*\* |
| Painters, construction &  maintenance (6420) | 35.7 (25.8, 47.1)g | 27.3 (19.7, 36.5)f | 2.0 (1.2, 3.3)f | 1.3 (0.8, 2.2)g | 38.8 (28.8, 49.8)g | 33.3 (25.1, 42.7)g | 33.0 (24.4, 42.8)f | 24.4 (17.2, 33.4) | 24.6 (18.5, 31.8)f | 23.7 (17.6, 31.1)f | 19.4 (11.0, 31.9) | 16.0 (9.0, 26.8) |
| Pipe layers, plumbers,  pipefitters, & steamfitters  (6440) | 31.8 (24.0, 40.8)g | 23.2 (16.7, 31.3)f | 11.7 (7.8, 17.2)g | 5.8 (3.8, 8.7)f | 28.3 (22.5, 34.9)f | 22.2 (17.7, 27.4) | 27.1 (19.4, 36.5) | 23.3 (17.3, 30.7) | 38.3 (30.8, 46.4) | 36.1 (29.1, 43.8) | 23.7 (18.8, 29.5)g | 17.2 (13.6, 21.6)f |
| Roofers (6510) | 37.8 (27.4, 49.3)g | 27.1 (19.3, 36.6)f | 8.6 (5.2, 13.9)g | 4.4 (2.7, 7.2) | 41.5 (30.2, 53.8)g | 32.7 (22.6, 44.6)f | 34.8 (24.3, 46.9)f | 26.5 (18.8, 36.0) | 33.3 (23.5, 44.8) | 31.5 (22.0, 42.9) | 21.9 (14.1, 32.4)f | 16.1 (10.4, 24.3) |
| Sheet metal workers  (6520) | 42.6 (29.2, 57.2)g | 35.7 (23.0, 50.8)g | 11.3 (6.0, 20.2)\*g | 5.8 (3.1, 10.5)\* | 39.9 (27.5, 53.7)g | 32.3 (21.7, 45.2)f | 21.0 (12.6, 32.8) | 19.9 (12.1, 31.0) | 43.1 (28.6, 58.8) | 40.3 (26.3, 56.1) | 16.4 (9.9, 26.0) | 12.4 (7.4, 20.0) |
| Structural iron & steel  workers (6530) | 31.9 (20.2, 46.4)f | 25.1 (16.2, 36.6)f | 15.2 (7.4, 28.8)\*g | 7.8 (4.1, 14.5)\*f | 29.0 (17.9, 43.2) | 25.0 (15.4, 37.8) | 27.2 (17.3, 40.0) | 26.3 (16.8, 38.7) | 54.3 (38.8, 69.0)f | 48.5 (34.6, 62.5) | 30.0 (16.9, 47.4)f | 16.2 (9.2, 27.0) |
| Construction & building  inspectors (6660) | 14.6 (8.0, 25.2) | 11.3 (5.9, 20.6)\* | \*\* | \*\* | 18.1 (9.9, 30.9) | 16.5 (8.2, 30.3)\* | 17.2 (9.4, 29.4) | 18.6 (9.5, 33.2)\* | 38.0 (22.7, 56.2) | 34.1 (19.5, 52.5) | 13.0 (5.9, 26.5)\* | 7.4 (3.5, 15.0)\* |
| Elevator installers &  repairers (6700) | 11.7 (5.2, 24.2)\* | 10.1 (5.0, 19.5)\* | \*\* | \*\* | 30.4 (12.5, 57.2)\* | 22.1 (7.5, 49.8)\* | 44.7 (24.0, 67.4)f | 39.9 (23.6, 58.8)f | 46.3 (25.1, 68.9) | 43.2 (23.4, 65.4) | 20.3 (9.5, 38.1)\* | 16.1 (7.2, 32.3)\* |
| Highway maintenance  workers (6730) | 23.6 (15.7, 33.9)f | 17.1 (11.0, 25.8) | 14.5 (9.4, 21.7)g | 7.2 (4.6, 11.2)f | 35.0 (25.1, 46.4)f | 28.1 (20.4, 37.4)f | 23.4 (16.4, 32.2) | 21.2 (14.8, 29.4) | 35.3 (24.8, 47.4) | 33.9 (23.7, 45.8) | 22.1 (13.8, 33.5)f | 17.6 (11.3, 26.3) |
| Earth drillers, except oil &  gas (6820) | 23.8 (10.8, 44.7)\* | 16.6 (7.5, 32.8)\* | 11.1 (4.7, 24.2)\*f | 5.1 (2.1, 11.7)\* | 22.6 (10.4, 42.3)\* | 18.4 (8.4, 35.6)\* | 12.7 (5.2, 28.2)\* | \*\* | 28.8 (13.1, 52.1)\* | 25.1 (11.0, 47.8)\* | 13.7 (7.1, 24.8)\* | 10.3 (5.4, 18.7)\* |
| Heating, air conditioning,  & refrigeration mechanics  & installers (7310) | 25.1 (18.5, 33.1)f | 17.9 (13.4, 23.5) | 10.9 (5.8, 19.6)\*g | 5.7 (3.1, 10.1)\* | 28.6 (22.0, 36.2)f | 22.7 (17.5, 28.9) | 22.1 (16.5, 28.9) | 22.3 (16.2, 30.0) | 40.0 (30.8, 50.0) | 35.1 (27.5, 43.7) | 26.5 (17.9, 37.3)g | 19.7 (12.4, 29.8)f |
| Electrical power-line  installers & repairers  (7410) | 49.8 (29.0, 70.7)g | 35.4 (20.3, 54.1)f | 43.3 (22.9, 66.2)g | \*\* | 54.0 (33.3, 73.4)g | 38.3 (20.1, 60.5) | 21.5 (10.6, 38.8)\* | 21.9 (10.8, 39.4)\* | \*\* | \*\* | 31.2 (14.0, 55.9)\*f | 19.0 (8.6, 37.0)\* |
| Welding, soldering, &  brazing workers (8140) | 22.5 (13.2, 35.8) | 15.4 (8.4, 26.7) | 23.1 (13.4, 36.9)g | 11.4 (6.8, 18.6)g | 27.3 (16.6, 41.5) | 20.2 (12.0, 32.1) | 31.8 (20.1, 46.4) | 28.2 (17.5, 41.9) | 53.4 (38.6, 67.7)f | 49.3 (34.9, 63.9) | 30.0 (19.1, 43.8)g | 19.5 (12.3, 29.4)f |
| Driver/sales workers &  truck drivers (9130) | 39.2 (27.0, 53.0)g | 29.7 (19.0, 43.2)f | 9.1 (5.6, 14.3)g | 4.1 (2.6, 6.5) | 27.2 (18.4, 38.1) | 25.5 (17.6, 35.6) | 36.8 (25.0, 50.5)f | 28.2 (19.1, 39.5) | 36.2 (25.3, 48.7) | 33.2 (23.6, 44.5) | 27.7 (16.4, 42.7)f | 21.5 (12.8, 33.6)f |
| Dredge, excavating, &  loading machine  operators (9520) | 19.1 (8.9, 36.3)\* | 11.2 (4.3, 26.2)\* | \*\* | \*\* | 22.2 (10.7, 40.4)\* | 14.4 (6.2, 30.0)\* | 34.4 (14.2, 62.4)\* | 32.9 (12.3, 63.0)\* | \*\* | \*\* | 26.2 (13.4, 45.0)\*f | 15.6 (6.5, 33.0)\* |
| **All other industries** | 15.3 (15.0, 15.7) | 15.8 (15.4, 16.2) | 3.4 (3.2, 3.5) | 3.6 (3.4, 3.8) | 19.8 (19.4, 20.2) | 20.2 (19.8, 20.6) | 20.5 (20.2, 20.9) | 20.8 (20.4, 21.2) | 36.5 (36.0, 37.0) | 36.4 (35.9, 36.9) | 11.5 (11.2, 11.8) | 11.8 (11.5, 12.2) |

CI, confidence interval.

For each behavior, the lowest and highest estimates with a relative standard error ≤30% for individual occupations are shaded.

\*Estimates have a relative standard error >30% and ≤50% and should be used with caution as they have limited reliability/precision.

\*\* Estimates are unreliable and are not reported because they have a relative standard error >50%.

a Weighted to state populations using the survey sample weight for each respondent.

b From <https://www.census.gov/topics/employment/industry-occupation/guidance/code-lists.html>.

c Data were collected only in 2013, 2014, and 2016.

d Adjusted by age group, sex, race/ethnicity, and education.

e Includes all 38 selected occupations.

f p<0.05 for t test against all other industries.

g p<0.001 for t test against all other industries.