Table 1. Differences between NSLP participants and nonparticipants in mean HEI-2010 scores for lunch intakes, by household income (including 95\% CIs).

|  | Lower-Income Students |  |  | Higher-Income Students |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NSLP <br> Participants $(n=757)$ | Nonparticipants $(n=210)$ | Difference (NSLP Participants - Nonparticipants) | NSLP <br> Participants $(n=475)$ | Nonparticipants $(n=614)$ | Difference (NSLP <br> Participants Nonparticipants) |
| Adequacy components: Higher scores reflect higher concentrations in students' lunch intakes |  |  |  |  |  |  |
| Total fruit | $\begin{gathered} \hline 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} \hline 82.6 \\ (54.8,100.0) \end{gathered}$ | 17.4 | $\begin{gathered} 98.5 \\ (88.5,100.0) \end{gathered}$ | $\begin{gathered} 99.6 \\ (93.8,100.0) \end{gathered}$ | -1.1 |
| Whole fruit | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} 98.4 \\ (78.1,100.0) \end{gathered}$ | 1.6 | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | 0.0 |
| Total vegetables | $\begin{gathered} 55.1 \\ (47.7,62.2) \end{gathered}$ | $\begin{gathered} 33.5 \\ (21.7,47.3) \end{gathered}$ | 21.6* | $\begin{gathered} 48.9 \\ (40.6,57.2) \end{gathered}$ | $\begin{gathered} 35.8 \\ (30.6,40.9) \end{gathered}$ | 13.1* |
| Greens and beans | $\begin{gathered} 35.3 \\ (18.1,51.1) \end{gathered}$ | $\begin{gathered} 26.9 \\ (11.5,42.9) \end{gathered}$ | 8.5 | $\begin{gathered} 12.1 \\ (4.0,23.6) \end{gathered}$ | $\begin{gathered} 26.5 \\ (10.0,42.5) \end{gathered}$ | -14.4 |
| Whole grains | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} 61.6 \\ (39.3,89.2) \end{gathered}$ | 38.4* | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} 61.0 \\ (49.6,72.5) \end{gathered}$ | 39.0* |
| Dairy | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} 69.5 \\ (54.6,86.8) \end{gathered}$ | 30.5* | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} 64.5 \\ (56.4,72.8) \end{gathered}$ | 35.5* |
| Total protein foods | $\begin{gathered} 99.0 \\ (88.5,100.0) \end{gathered}$ | $\begin{gathered} 99.5 \\ (91.9,100.0) \end{gathered}$ | -0.5 | $\begin{gathered} 98.1 \\ (90.7,100.0) \end{gathered}$ | $\begin{gathered} 99.9 \\ (99.9,100.0) \end{gathered}$ | -1.9 |
| Seafood and plant proteins | $\begin{gathered} 39.6 \\ (23.7,56.8) \end{gathered}$ | $\begin{gathered} 94.9 \\ (40.2,100.0) \end{gathered}$ | -55.3* | $\begin{gathered} 77.4 \\ (55.8,98.5) \end{gathered}$ | $\begin{gathered} 86.7 \\ (65.6,100.0) \end{gathered}$ | -9.3 |
| Fatty acids | $\begin{gathered} 60.3 \\ (50.5,70.4) \end{gathered}$ | $\begin{gathered} 72.0 \\ (50.2,92.3) \end{gathered}$ | -11.7 | $\begin{gathered} 69.2 \\ (55.3,84.3) \end{gathered}$ | $\begin{gathered} 58.4 \\ (48.8,68.7) \end{gathered}$ | 10.8 |
| Moderation components: Higher scores reflect lower concentrations in students' lunch intakes |  |  |  |  |  |  |
| Refined grains | $\begin{gathered} 91.3 \\ (81.8,100.0) \end{gathered}$ | $\begin{gathered} 48.8 \\ (21.6,82.3) \end{gathered}$ | 42.5* | $\begin{gathered} 82.7 \\ (73.5,91.8) \end{gathered}$ | $\begin{gathered} 26.9 \\ (14.4,39.7) \end{gathered}$ | 55.7* |
| Sodium | $\begin{gathered} 40.2 \\ (31.3,49.1) \end{gathered}$ | $\begin{gathered} 54.5 \\ (39.1,68.7) \end{gathered}$ | -14.3 | $\begin{gathered} 45.7 \\ (36.7,54.3) \end{gathered}$ | $\begin{gathered} 27.7^{*} \\ (16.2,38.8) \end{gathered}$ | 17.9* |
| Empty calories | $\begin{gathered} 95.7 \\ (91.2,100.0) \end{gathered}$ | $\begin{gathered} 77.9 \\ (66.7,88.5) \end{gathered}$ | 17.8* | $\begin{gathered} 94.9 \\ (89.6,100.0) \end{gathered}$ | $\begin{gathered} 79.2 \\ (74.2,84.4) \end{gathered}$ | 15.7* |
| Total HEI score | $\begin{gathered} 79.8 \\ (77.7,81.7) \\ \hline \end{gathered}$ | $\begin{gathered} 68.0 \\ (60.3,76.1) \\ \hline \end{gathered}$ | 11.8* | $\begin{gathered} 80.5 \\ (77.5,83.4) \\ \hline \end{gathered}$ | $\begin{gathered} 62.1 \\ (58.6,65.7) \\ \hline \end{gathered}$ | 18.4* |

Notes: Mean HEI-2010 scores are expressed as a percentage of maximum possible scores. Upper and lower limits of $95 \%$ CIs are included in parentheses below the mean HEI score. * Within an income subgroup, the difference between NSLP participants and nonparticipants was significantly different from zero at the $p<0.05$ level. $\mathrm{CI}=$ confidence interval; HEI = Healthy Eating Index; NSLP = National School Lunch Program.

Table 2. Differences between NSLP participants and nonparticipants in mean HEI-2010 scores for 24 h intakes, by household income (including 95\% CIs).

|  | Lower-Income Students |  |  | Higher-Income Students |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NSLP <br> Participants ( $n=757$ ) | Nonparticipants $(n=210)$ | Difference (NSLP <br> Participants Nonparticipants) | NSLP <br> Participants ( $n=475$ ) | Nonparticipants $(n=614)$ | Difference <br> (NSLP <br> Participants Nonparticipants) |
| Adequacy components: Higher scores reflect higher concentrations in students' 24 h |  |  |  |  |  |  |
| Total fruit | $\begin{gathered} 95.9 \\ (86.9,100.0) \end{gathered}$ | $\begin{gathered} 77.2 \\ (58.8,97.7) \end{gathered}$ | 18.7 | $\begin{gathered} 80.4 \\ (71.0,90.2) \end{gathered}$ | $\begin{gathered} 93.8 \\ (83.4,100.0) \end{gathered}$ | -13.4 |
| Whole fruit | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | $\begin{gathered} 93.7 \\ (69.3,100.0) \end{gathered}$ | 6.3 | $\begin{gathered} 99.5 \\ (93.7,100.0) \end{gathered}$ | $\begin{gathered} 100.0 \\ (100.0,100.0) \end{gathered}$ | -0.5 |
| Total vegetables | $\begin{gathered} 46.2 \\ (41.8,50.6) \end{gathered}$ | $\begin{gathered} 46.2 \\ (37.6,55.4) \end{gathered}$ | 0.0 | $\begin{gathered} 42.2 \\ (36.0,48.4) \end{gathered}$ | $\begin{gathered} 41.4 \\ (36.5,46.7) \end{gathered}$ | 0.8 |
| Greens and beans | $\begin{gathered} 17.1 \\ (11.5,29.6) \end{gathered}$ | $\begin{gathered} 30.7 \\ (10.8,52.5) \end{gathered}$ | -13.6 | $\begin{gathered} 13.1 \\ (6.5,26.4) \end{gathered}$ | $\begin{gathered} 33.1^{*} \\ (20.1,49.1) \end{gathered}$ | -20.0 |
| Whole grains | $\begin{gathered} 57.4(51.5, \\ 63.5) \end{gathered}$ | $\begin{gathered} 41.4 \\ (31.0,52.8) \end{gathered}$ | 16.0* | $\begin{gathered} 58.0 \\ (51.3,64.5) \end{gathered}$ | $\begin{gathered} 43.4 \\ (38.3,48.5) \end{gathered}$ | 14.5* |
| Dairy | $\begin{gathered} 98.5 \\ (94.1,100.0) \end{gathered}$ | $\begin{gathered} 79.6 \\ (69.5,90.4) \end{gathered}$ | 18.9* | $\begin{gathered} 97.7 \\ (91.8,100.0) \end{gathered}$ | $\begin{gathered} 82.0 \\ (76.0,87.9) \end{gathered}$ | 15.7* |
| Total protein foods | 96.1 | 99.1 | -3.0 | 97.7 | 98.7 | -1.1 |


|  | (88.5, 100.0) | (92.2, 100.0) |  | (90.3, 100.0) | (93.3, 100.0) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Seafood and plant proteins | $\begin{gathered} 59.6 \\ (47.2,70.2) \end{gathered}$ | $\begin{gathered} 81.5 \\ (46.6,100.0) \end{gathered}$ | -21.9 | $\begin{gathered} 71.0 \\ (55.7,86.1) \end{gathered}$ | $\begin{gathered} 73.1 \\ (59.5,86.6) \end{gathered}$ | -2.1 |
| Fatty acids | $\begin{gathered} 41.2 \\ (37.0,45.6) \\ \hline \end{gathered}$ | $\begin{gathered} 43.3 \\ (31.4,55.4) \end{gathered}$ | -2.0 | $\begin{gathered} 37.3 \\ (30.7,44.4) \\ \hline \end{gathered}$ | $\begin{gathered} 38.6 \\ (33.2,44.2) \end{gathered}$ | -1.2 |
| Moderation components: Higher scores reflect lower concentrations in students' 24 h intakes |  |  |  |  |  |  |
| Refined grains | $\begin{gathered} \hline 57.9 \\ (54.3,61.5) \end{gathered}$ | $\begin{gathered} 53.1 \\ (41.5,65.2) \end{gathered}$ | 4.7 | $\begin{gathered} 62.1 \\ (54.7,69.5) \end{gathered}$ | $\begin{gathered} 41.9 \\ (35.1,48.7) \end{gathered}$ | 20.2* |
| Sodium | $\begin{gathered} 45.4 \\ (41.4,49.4) \end{gathered}$ | $\begin{gathered} 50.7 \\ (44.3,56.9) \end{gathered}$ | -5.3 | $\begin{gathered} 48.8 \\ (43.8,53.7) \end{gathered}$ | $\begin{gathered} 38.8^{*} \\ (31.8,45.8) \end{gathered}$ | 10.0* |
| Empty calories | $\begin{gathered} 72.5 \\ (68.8,76.4) \end{gathered}$ | $\begin{gathered} 65.9 \\ (60.5,71.6) \\ \hline \end{gathered}$ | 6.6 | $\begin{gathered} 72.0 \\ (67.0,76.8) \\ \hline \end{gathered}$ | $\begin{gathered} 72.3 \\ (68.0,76.6) \\ \hline \end{gathered}$ | -0.3 |
| Total HEI score | $\begin{gathered} 65.3 \\ (63.4,67.2) \end{gathered}$ | $\begin{gathered} 61.4 \\ (56.1,66.6) \end{gathered}$ | 3.9 | $\begin{gathered} 65.0 \\ (62.3,67.5) \end{gathered}$ | $\begin{gathered} 60.9 \\ (58.9,63.0) \end{gathered}$ | 4.0* |

Notes: Mean HEI-2010 scores are expressed as a percentage of maximum possible scores. Upper and lower limits of $95 \%$ CIs are included in parentheses below the mean HEI score. * Within an income subgroup, the difference between NSLP participants and nonparticipants was significantly different from zero at the $p<0.05$ level.
$\mathrm{CI}=$ confidence interval; HEI = Healthy Eating Index; NSLP = National School Lunch Program.

Table 3. Differences between NSLP participants and nonparticipants in mean HEI-2010 scores for lunch intakes, by race/ethnicity (including 95\% CIs).

|  | Non-Hispanic White Students |  |  | Non-Hispanic Black Students |  |  | Hispanic Students |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { NSLP } \\ \text { Participa } \\ \text { nts } \\ (n=485) \end{gathered}$ | Nonparticip ants ( $n=442$ ) | Difference <br> (NSLP <br> Participants <br> Nonparticipa nts) | NSLP <br> Participa nts ( $n=183$ ) | Nonparticip ants ( $n=74$ ) | Difference (NSLP <br> Participants <br> Nonparticipa nts) | $\begin{gathered} \text { NSLP } \\ \text { Participa } \\ \text { nts } \\ (n=376) \end{gathered}$ | $\begin{aligned} & \text { Nonparticip } \\ & \text { ants } \\ & (n=161) \end{aligned}$ | Difference (NSLP <br> Participants <br> Nonparticipa nts) |
| Adequacy components: Higher scores reflect higher concentrations in students' lunch intakes |  |  |  |  |  |  |  |  |  |
| Total fruit | $\begin{gathered} 99.5 \\ (93.9, \\ 100.0) \end{gathered}$ | $\begin{gathered} 92.2 \\ (75.2,100.0) \end{gathered}$ | 7.4 | $\begin{gathered} 99.7 \\ (96.9, \\ 100.0) \end{gathered}$ | $\begin{gathered} \hline 92.6 \\ (66.4,100.0) \end{gathered}$ | 7.1 | $\begin{gathered} \hline 100.0 \\ (100.0, \\ 100.0) \end{gathered}$ | $\begin{gathered} \hline 96.3 \\ (70.7,100.0) \end{gathered}$ | 3.7 |
| Whole fruit | $\begin{gathered} 100.0 \\ (100.0 \\ 100.0) \end{gathered}$ | $\begin{array}{r} 100.0 \\ (100.0 \\ 100.0) \end{array}$ | 0.0 | $\begin{array}{r} 100.0 \\ (100.0 \\ 100.0) \end{array}$ | $\begin{gathered} 99.9 \\ (100.0, \\ 100.0) \end{gathered}$ | 0.1 | $\begin{gathered} 100.0 \\ (100.0, \\ 100.0) \end{gathered}$ | $\begin{gathered} 99.9 \\ (100.0, \\ 100.0) \end{gathered}$ | 0.1 |
| Total vegetabl es | $\begin{gathered} 56.3 \\ (47.4, \\ 65.7) \end{gathered}$ | $\begin{gathered} 30.1 \\ (23.5,37.0) \end{gathered}$ | 26.3* | $\begin{gathered} 34.9 \\ (24.8, \\ 44.7) \end{gathered}$ | $\begin{gathered} 27.2 \\ (13.6,41.4) \end{gathered}$ | 7.7 | $\begin{array}{r} 51.4 \\ (39.5, \\ 63.2) \end{array}$ | $\begin{gathered} 50.8 \\ (33.8,67.3) \end{gathered}$ | 0.6 |
| Greens and beans | $\begin{gathered} 29.0 \\ (13.1, \\ 44.0) \end{gathered}$ | $\begin{gathered} 16.3 \\ (2.1,33.8) \end{gathered}$ | 12.7 | $\begin{gathered} 19.1 \\ (1.3,38.7) \end{gathered}$ | $\begin{gathered} 19.5 \\ (-0.4,39.2) \end{gathered}$ | -0.4 | $\begin{gathered} 12.9 \\ (6.4,20.7) \end{gathered}$ | $\begin{gathered} 37.3 \\ (11.3,65.3) \end{gathered}$ | -24.4 |
| Whole grains | $\begin{gathered} 99.9 \\ (100.0, \\ 100.0) \end{gathered}$ | $\begin{gathered} 53.5 \\ (39.4,68.6) \end{gathered}$ | 46.4* | $\begin{gathered} 99.2 \\ (89.4, \\ 100.0) \end{gathered}$ | $\begin{gathered} 68.2 \\ (42.5,89.5) \end{gathered}$ | 31.0* | $\begin{array}{r} 100.0 \\ (100.0 \\ 100.0) \end{array}$ | $\begin{gathered} 74.4 \\ (43.4,100.0) \end{gathered}$ | 25.6 |
| Dairy | $\begin{gathered} 100.0 \\ (100.0, \\ 100.0) \end{gathered}$ | $\begin{gathered} 65.0 \\ (53.9,76.9) \end{gathered}$ | 35.0* | $\begin{gathered} 99.9 \\ (98.5, \\ 100.0) \end{gathered}$ | $\begin{gathered} 60.6 \\ (46.8,75.4) \end{gathered}$ | 39.2* | $\begin{gathered} 100.0 \\ (100.0, \\ 100.0) \end{gathered}$ | $\begin{gathered} 75.1 \\ (56.6,94.8) \end{gathered}$ | 24.9* |
| Total protein foods | 97.2 <br> (86.4, <br> 100.0) | $\begin{gathered} 99.3 \\ (92.3,100.0) \end{gathered}$ | -2.1 | $\begin{gathered} 99.2 \\ (87.5, \\ 100.0) \end{gathered}$ | $\begin{gathered} 99.7 \\ (95.0,100.0) \end{gathered}$ | -0.4 | $\begin{gathered} 91.2 \\ (79.9, \\ 100.0) \end{gathered}$ | $\begin{gathered} 96.9 \\ (81.8,100.0) \end{gathered}$ | -5.7 |
| Seafood and plant proteins | $\begin{gathered} 67.3 \\ (46.2, \\ 88.1) \end{gathered}$ | $\begin{gathered} 99.6 \\ (93.8,100.0) \end{gathered}$ | -32.3* | $\begin{gathered} 50.6 \\ (27.1, \\ 73.6) \end{gathered}$ | $\begin{gathered} 34.7 \\ (12.0,60.1) \end{gathered}$ | 15.8 | $\begin{array}{r} 52.2 \\ (34.2, \\ 69.8) \end{array}$ | $\begin{gathered} 63.7 \\ (6.3,100.0) \end{gathered}$ | -11.4 |
| Fatty acids | $\begin{gathered} 62.1 \\ (50.1, \\ 75.2) \end{gathered}$ | $\begin{gathered} 67.1 \\ (53.2,82.6) \end{gathered}$ | -5.0 | $\begin{gathered} 68.2 \\ (49.1, \\ 87.7) \end{gathered}$ | $\begin{gathered} 46.6 \\ (29.8,65.4) \end{gathered}$ | 21.6 | $\begin{gathered} 67.7 \\ (53.2, \\ 82.7) \end{gathered}$ | $\begin{gathered} 55.0 \\ (26.0,94.3) \end{gathered}$ | 12.7 |
| Moderation components: Higher scores reflect lower concentrations in students' lunch intakes |  |  |  |  |  |  |  |  |  |
| Refined grains | $\begin{gathered} 86.8 \\ (75.0, \\ 98.7) \end{gathered}$ | $\begin{gathered} 22.1 \\ (3.7,41.6) \end{gathered}$ | 64.7* | $\begin{gathered} 94.8 \\ (80.4, \\ 100.0) \end{gathered}$ | $\begin{gathered} 37.8 \\ (10.7,68.0) \end{gathered}$ | 57.0* | $\begin{gathered} 88.0 \\ (75.7, \\ 100.0) \end{gathered}$ | $\begin{gathered} 60.4 \\ (38.6,80.7) \end{gathered}$ | 27.5* |
| Sodium | $\begin{gathered} 45.4 \\ (35.6, \\ 54.8) \end{gathered}$ | $\begin{gathered} 38.2 \\ (21.5,54.1) \end{gathered}$ | 7.1 | $\begin{gathered} 35.3 \\ (13.2, \\ 55.0) \end{gathered}$ | $\begin{gathered} 14.5 \\ (0.0,37.5) \end{gathered}$ | 20.8 | $\begin{gathered} 42.7 \\ (36.0, \\ 49.8) \end{gathered}$ | $\begin{gathered} 43.5 \\ (30.0,57.6) \end{gathered}$ | -0.8 |
| Empty calories | $\begin{gathered} 93.2 \\ (87.9, \\ 98.8) \end{gathered}$ | $\begin{gathered} 76.5 \\ (68.1,85.2) \end{gathered}$ | 16.7* | $\begin{gathered} 95.0 \\ (87.2, \\ 100.0) \end{gathered}$ | $\begin{gathered} 72.1 \\ (59.4,86.7) \end{gathered}$ | 22.8* | $\begin{gathered} 98.5 \\ (93.8, \\ 100.0) \end{gathered}$ | $\begin{gathered} 76.5 \\ (62.0,93.8) \end{gathered}$ | 22.0* |
| Total HEI score | $\begin{aligned} & \hline 80.5 \\ & (77.4, \\ & 83.5) \\ & \hline \end{aligned}$ | $\begin{gathered} 61.8 \\ (56.3,67.3) \end{gathered}$ | 18.8* | $\begin{aligned} & 78.9 \\ & (75.4, \\ & 82.4) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 55.9 \\ (50.2,61.3) \end{gathered}$ | 23.0* | $\begin{aligned} & \hline 79.9 \\ & (77.0, \\ & 82.7) \\ & \hline \end{aligned}$ | $\begin{gathered} 68.4 \\ (57.5,79.5) \end{gathered}$ | 11.5 |

Notes: Mean HEI-2010 scores are expressed as a percentage of maximum possible scores. Upper and lower limits of $95 \%$ CIs are included in parentheses below the mean HEI score. * Within a race/ethnicity subgroup, the difference between NSLP participants and nonparticipants was significantly different from zero at the $p<0.05$ level. $\mathrm{CI}=$ confidence interval; HEI $=$ Healthy Eating Index; NSLP = National School Lunch Program. .

Table 4. Differences between NSLP participants and nonparticipants in mean HEI-2010 scores for 24 h intakes, by race/ethnicity (including 95\% CIs).

|  | Non-Hispanic White Students |  |  | Non-Hispanic Black Students |  |  | Hispanic Students |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NSLP <br> Participa nts ( $n=485$ ) | Nonparticip ants $(n=442)$ | Difference <br> (NSLP <br> Participants <br> Nonparticipa nts) | NSLP <br> Participa nts ( $n=183$ ) | Nonparticip ants ( $n=74$ ) | Difference (NSLP <br> Participants <br> Nonparticipa nts) | NSLP <br> Participa nts $(n=376)$ | Nonparticip ants ( $n=161$ ) | $\begin{gathered} \text { Difference } \\ \text { (NSLP } \\ \text { Participants } \\ - \\ \begin{array}{c} \text { Nonparticipa } \\ \text { nts) } \end{array} \\ \hline \end{gathered}$ |
| Adequacy components: Higher scores reflect higher concentrations in students' 24 h intakes |  |  |  |  |  |  |  |  |  |
| Total fruit | $\begin{gathered} 78.9 \\ (68.7, \\ 89.6) \end{gathered}$ | $\begin{gathered} 76.8 \\ (63.7,90.6) \end{gathered}$ | 2.1 | $\begin{gathered} 97.1 \\ (84.2, \\ 100.0) \end{gathered}$ | $\begin{gathered} 81.0 \\ (61.7,100.0) \end{gathered}$ | 16.1 | $\begin{gathered} 98.7 \\ (91.5, \\ 100.0) \end{gathered}$ | $\begin{gathered} 92.3 \\ (69.9,100.0) \end{gathered}$ | 6.4 |
| Whole fruit | $\begin{gathered} 99.3 \\ (91.6, \\ 100.0) \end{gathered}$ | $\begin{gathered} 99.2 \\ (90.0,100.0) \end{gathered}$ | 0.1 | $\begin{gathered} 95.5 \\ (76.8, \\ 100.0) \end{gathered}$ | $\begin{gathered} 86.6 \\ (51.6,100.0) \end{gathered}$ | 8.9 |  | $\begin{gathered} 99.7 \\ (95.9,100.0) \end{gathered}$ | 0.3 |
| Total vegetab les | $\begin{gathered} 45.9 \\ (39.2, \\ 52.5) \end{gathered}$ | $\begin{gathered} 36.1 \\ (31.2,41.3) \end{gathered}$ | 9.7* | $\begin{gathered} 40.7 \\ (34.6, \\ 46.4) \end{gathered}$ | $\begin{gathered} 47.7 \\ (38.0,57.3) \end{gathered}$ | -7.0 | $\begin{gathered} 44.9 \\ (38.6, \\ 51.3) \end{gathered}$ | $\begin{gathered} 55.7 \\ (46.9,64.7) \end{gathered}$ | -10.8 |
| Greens and beans | $\begin{gathered} 13.9 \\ (8.1,24.8) \end{gathered}$ | $\begin{gathered} 22.8 \\ (11.5,36.3) \end{gathered}$ | -8.9 | $\begin{gathered} 18.3 \\ (10.7, \\ 26.0) \end{gathered}$ | $\begin{gathered} 73.6^{*} \\ (26.0,100.0) \end{gathered}$ | -55.2 | $\begin{aligned} & 11.5 \\ & (6.9, \\ & 17.4) \end{aligned}$ | $\begin{gathered} 23.2 \\ (10.8,42.1) \end{gathered}$ | -11.7 |
| Whole grains | 54.7 <br> (48.6, <br> 60.4) | $\begin{gathered} 38.5 \\ (32.1,45.2) \end{gathered}$ | 16.2* | $\begin{gathered} 49.1 \\ (39.3, \\ 59.1) \end{gathered}$ | $\begin{gathered} 51.6 \\ (22.2,83.1) \end{gathered}$ | $-2.5$ | $\begin{gathered} 68.5 \\ (61.3, \\ 75.7) \end{gathered}$ | $\begin{gathered} 39.1 \\ (28.2,49.8) \end{gathered}$ | 29.4 |
| Dairy | $\begin{gathered} 99.3 \\ (94.8, \\ 100.0) \end{gathered}$ | $\begin{gathered} 84.7 \\ (77.1,92.7) \end{gathered}$ | 14.5* | $\begin{gathered} 79.5 \\ (72.8, \\ 86.3) \end{gathered}$ | $\begin{gathered} 58.0 \\ (47.6,67.7) \end{gathered}$ | 21.6* | $\begin{aligned} & 100.0 \\ & (99.9, \\ & 100.0) \end{aligned}$ | $\begin{gathered} 84.2 \\ (72.6,96.1) \end{gathered}$ | 15.7* |
| Total protein foods | 94.7 <br> (85.3, <br> 100.0) | $\begin{gathered} 97.9 \\ (89.7,100.0) \end{gathered}$ | -3.2 | 99.8 <br> (96.7, <br> 100.0) | $\begin{gathered} 93.5 \\ (78.2,100.0) \end{gathered}$ | 6.2 | 93.3 <br> (84.9, <br> 100.0) | $\begin{gathered} 94.5 \\ (82.7,100.0) \end{gathered}$ | -1.3 |
| Seafood and plant proteins | $\begin{gathered} 67.2 \\ (51.8, \\ 81.5) \end{gathered}$ | $\begin{gathered} 82.8 \\ (64.9,100.0) \end{gathered}$ | -15.6 | $\begin{gathered} 49.5 \\ (32.3, \\ 69.2) \end{gathered}$ | $\begin{gathered} 27.6 \\ (14.1,39.8) \end{gathered}$ | 21.9 | $\begin{gathered} 69.3 \\ (54.1, \\ 84.1) \end{gathered}$ | $\begin{gathered} 84.9 \\ (40.2,100.0) \end{gathered}$ | -15.6 |
| Fatty acids | $\begin{gathered} 35.9 \\ (29.7, \\ 42.2) \end{gathered}$ | $\begin{gathered} 40.6 \\ (34.4,47.1) \end{gathered}$ | -4.7 | $\begin{array}{r} 51.6 \\ (43.9, \\ 60.3) \\ \hline \end{array}$ | $\begin{gathered} 44.8 \\ (34.7,55.7) \end{gathered}$ | 6.8 | $\begin{gathered} 40.3 \\ (35.0, \\ 45.7) \end{gathered}$ | $\begin{gathered} 35.4 \\ (19.8,53.7) \end{gathered}$ | 4.9 |
| Moderation components: Higher scores reflect lower concentrations in students' 24 h intakes |  |  |  |  |  |  |  |  |  |
| Refined grains | $\begin{gathered} 63.0 \\ (56.0, \\ 69.9) \end{gathered}$ | $\begin{gathered} 42.4 \\ (33.4,51.1) \end{gathered}$ | 20.6* | $\begin{gathered} 65.9 \\ (59.9, \\ 72.0) \end{gathered}$ | $\begin{gathered} 47.3 \\ (24.7,71.2) \end{gathered}$ | 18.7 | $\begin{gathered} 53.7 \\ (45.8, \\ 61.6) \end{gathered}$ | $\begin{gathered} 46.9 \\ (35.5,57.8) \end{gathered}$ | 6.9 |
| Sodium | $\begin{gathered} 50.8 \\ (46.2, \\ 55.2) \end{gathered}$ | $\begin{gathered} 48.0 \\ (40.3,55.5) \end{gathered}$ | 2.8 | $\begin{gathered} 46.0 \\ (38.9 \\ 53.1) \end{gathered}$ | $\begin{gathered} 38.7 \\ (27.6,50.2) \end{gathered}$ | 7.3 | $\begin{gathered} 42.7 \\ (37.6, \\ 47.8) \end{gathered}$ | $\begin{gathered} 44.9 \\ (35.0,54.8) \end{gathered}$ | -2.2 |
| Empty calories | $\begin{array}{r} 68.2 \\ (62.9, \\ 73.4) \\ \hline \end{array}$ | $\begin{gathered} 66.8 \\ (62.7,71.2) \end{gathered}$ | 1.3 | $\begin{gathered} 70.4 \\ (62.8, \\ 78.5) \\ \hline \end{gathered}$ | $\begin{gathered} 62.8 \\ (52.0,73.2) \end{gathered}$ | 7.6 | $\begin{gathered} 79.9 \\ (76.0, \\ 83.6) \\ \hline \end{gathered}$ | $\begin{gathered} 72.9 \\ (64.3,82.6) \end{gathered}$ | 7.0 |
| Total HEI score | $\begin{gathered} \hline 64.0 \\ (61.0, \\ 66.8) \\ \hline \end{gathered}$ | $\begin{gathered} 59.6 \\ (56.2,62.8) \end{gathered}$ | 4.4* | $\begin{array}{r} \hline 63.3 \\ (60.6, \\ 65.7) \\ \hline \end{array}$ | $\begin{gathered} 57.1 \\ (50.4,63.7) \end{gathered}$ | 6.3 | $67.4$ <br> (64.7, 69.9) | $\begin{gathered} 62.1 \\ (57.2,67.3) \end{gathered}$ | 5.2 |

Notes: Mean HEI-2010 scores are expressed as a percentage of maximum possible scores. Upper and lower limits of $95 \%$ CIs are included in parentheses below the mean HEI score. * Within a race/ethnicity subgroup, the difference between NSLP participants and nonparticipants was significantly different from zero at the $p<0.05$ level. CI = confidence interval; HEI = Healthy Eating Index; NSLP = National School Lunch Program. .

