Supplementary table 1:

Standard error estimates for the RMSE of each of the developed models, estimates are computed across individual level data.

|  |  |  |  |
| --- | --- | --- | --- |
| Model | Participants | RMSE (METs) | SE |
| AGRF1 | 58 | 1.095 | 0.055 |
| AGRF2 | 57 | 0.949 | 0.053 |
| AGRF3 | 55 | 0.937 | 0.053 |
| FBRF1 | 57 | 1.269 | 0.061 |
| FBRF2 | 55 | 1.283 | 0.064 |
| SWRF1 | 59 | 1.156 | 0.056 |
| SWRF2 | 58 | 0.931 | 0.046 |
| SWRF3 | 56 | 0.946 | 0.047 |

Abbreviations: Metabolic equivalents (METs), Root mean squared error (RMSE), Mean absolute percentage error (MAPE), Standard Error (SE), Actigraph random forest (AGRF), Fitbit random forest (FBRF), Sensewear random forest (SWRF).

Supplementary table 2:

Accuracy statistics computed using the holdout validation approach, using 20% of available data for model testing. Criterion METs

Refers to METs calculated from indirect calorimetry, predicted METs refers to model prediction. Criterion METs differ due to differences in data available for the input features of each model.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Criterion METs | Predicted METs | RMSE (METs) | MAPE (%) | Correlation (r) |
| AGRF1 | 4.12 ± 2.47 | 4.08 ±2.29 | 0.82 | 15 | 0.94 |
| AGRF2 | 4.32 ± 2.68 | 4.32 ± 2.48 | 0.65 | 12.65 | 0.97 |
| AGRF3 | 4.20 ± 2.59 | 4.28 ± 2.47 | 0.55 | 11.7 | 0.98 |
| FBRF1 | 4.17 ± 2.60 | 4.22 ± 2.34 | 0.76 | 18.25 | 0.96 |
| FBRF2 | 4.05 ± 2.57 | 4.09 ± 2.26 | 0.79 | 20.54 | 0.95 |
| SWRF1 | 4.01 ± 2.44 | 4.07 ± 2.28 | 0.78 | 15 | 0.95 |
| SWRF2 | 4.46 ± 2.66 | 4.41 ± 2.44 | 0.75 | 11.9 | 0.96 |
| SWRF3 | 4.21 ± 2.59 | 4.17 ± 2.39 | 0.65 | 11.12 | 0.97 |

Abbreviations: Metabolic equivalents (METs), Root mean squared error (RMSE), Mean absolute percentage error (MAPE), Actigraph random forest (AGRF), Fitbit random forest (FBRF), Sensewear random forest (SWRF).

Supplementary table 3.

Individual level outputs for each of the developed models.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Criterion (Mean) | Criterion (SD) | Predicted (Mean) | Predicted (SD) | RMSE (METs) | MAPE (%) | correlation (r) | Model |
| 1 | 5.07 | 2.70 | 3.40 | 1.44 | 2.53 | 27.75 | 0.73 | AGRF1 |
| 2 | 5.10 | 3.38 | 4.48 | 2.70 | 2.09 | 22.53 | 0.80 | AGRF1 |
| 3 | 5.69 | 3.48 | 4.70 | 2.58 | 1.75 | 19.88 | 0.93 | AGRF1 |
| 4 | 5.34 | 3.27 | 4.08 | 2.44 | 2.00 | 19.41 | 0.89 | AGRF1 |
| 5 | 4.34 | 2.87 | 4.02 | 2.27 | 1.36 | 25.84 | 0.89 | AGRF1 |
| 6 | 4.90 | 3.14 | 4.49 | 2.70 | 1.17 | 17.73 | 0.94 | AGRF1 |
| 7 | 5.15 | 3.14 | 4.84 | 2.76 | 1.25 | 15.42 | 0.92 | AGRF1 |
| 8 | 3.79 | 1.89 | 2.53 | 1.66 | 2.12 | 35.89 | 0.53 | AGRF1 |
| 9 | 3.99 | 2.42 | 4.26 | 2.32 | 0.67 | 16.77 | 0.97 | AGRF1 |
| 10 | 3.79 | 2.10 | 4.36 | 2.16 | 1.07 | 27.10 | 0.91 | AGRF1 |
| 11 | 4.68 | 2.70 | 3.95 | 2.10 | 1.10 | 15.01 | 0.97 | AGRF1 |
| 12 | 4.38 | 2.53 | 3.83 | 2.35 | 1.10 | 18.99 | 0.92 | AGRF1 |
| 13 | 3.90 | 1.90 | 3.82 | 1.54 | 0.88 | 23.74 | 0.89 | AGRF1 |
| 14 | 3.29 | 1.57 | 4.15 | 1.73 | 1.06 | 36.06 | 0.93 | AGRF1 |
| 15 | 4.39 | 3.02 | 4.41 | 2.78 | 0.75 | 18.72 | 0.97 | AGRF1 |
| 16 | 4.11 | 2.29 | 4.34 | 2.28 | 1.00 | 16.25 | 0.91 | AGRF1 |
| 17 | 3.35 | 1.50 | 3.73 | 1.61 | 0.86 | 24.32 | 0.88 | AGRF1 |
| 18 | 5.24 | 3.09 | 4.55 | 2.56 | 1.11 | 15.82 | 0.97 | AGRF1 |
| 19 | 4.62 | 2.86 | 3.90 | 1.63 | 1.69 | 15.42 | 0.90 | AGRF1 |
| 20 | 3.62 | 2.41 | 3.91 | 2.33 | 0.69 | 17.90 | 0.96 | AGRF1 |
| 21 | 4.34 | 2.71 | 4.64 | 2.64 | 0.80 | 13.98 | 0.96 | AGRF1 |
| 22 | 4.86 | 2.97 | 4.74 | 2.69 | 0.86 | 13.98 | 0.96 | AGRF1 |
| 23 | 5.31 | 3.32 | 4.26 | 2.48 | 1.50 | 17.88 | 0.97 | AGRF1 |
| 24 | 3.45 | 1.63 | 3.60 | 1.57 | 0.99 | 20.41 | 0.81 | AGRF1 |
| 25 | 3.03 | 1.30 | 3.44 | 1.38 | 0.69 | 20.01 | 0.91 | AGRF1 |
| 26 | 4.93 | 2.66 | 4.09 | 1.71 | 1.49 | 17.03 | 0.93 | AGRF1 |
| 27 | 4.37 | 2.38 | 4.72 | 2.74 | 0.77 | 11.34 | 0.97 | AGRF1 |
| 28 | 4.89 | 3.08 | 4.21 | 2.12 | 1.38 | 11.93 | 0.96 | AGRF1 |
| 29 | 4.59 | 3.34 | 4.66 | 2.67 | 1.03 | 16.40 | 0.96 | AGRF1 |
| 30 | 3.39 | 2.07 | 3.96 | 2.29 | 0.88 | 25.16 | 0.96 | AGRF1 |
| 31 | 3.77 | 2.02 | 4.09 | 2.37 | 1.03 | 17.92 | 0.91 | AGRF1 |
| 32 | 4.31 | 2.45 | 4.31 | 2.53 | 0.52 | 11.86 | 0.98 | AGRF1 |
| 33 | 4.71 | 3.38 | 4.24 | 2.26 | 1.46 | 18.56 | 0.95 | AGRF1 |
| 34 | 3.64 | 2.00 | 4.01 | 2.05 | 0.86 | 24.97 | 0.92 | AGRF1 |
| 35 | 3.06 | 1.82 | 4.03 | 2.10 | 1.12 | 38.40 | 0.97 | AGRF1 |
| 36 | 3.20 | 2.11 | 4.37 | 2.55 | 1.42 | 44.64 | 0.96 | AGRF1 |
| 37 | 3.66 | 2.44 | 4.49 | 2.69 | 1.23 | 29.62 | 0.94 | AGRF1 |
| 38 | 4.57 | 2.65 | 4.20 | 2.33 | 0.77 | 13.20 | 0.97 | AGRF1 |
| 39 | 4.53 | 2.87 | 4.38 | 2.39 | 0.91 | 14.07 | 0.96 | AGRF1 |
| 40 | 3.15 | 1.38 | 3.44 | 1.31 | 0.65 | 18.22 | 0.91 | AGRF1 |
| 41 | 3.09 | 2.11 | 4.41 | 2.64 | 1.52 | 47.97 | 0.97 | AGRF1 |
| 42 | 3.58 | 2.01 | 4.45 | 2.11 | 1.18 | 36.68 | 0.92 | AGRF1 |
| 43 | 3.36 | 2.02 | 3.91 | 2.27 | 0.83 | 20.36 | 0.96 | AGRF1 |
| 44 | 4.49 | 2.29 | 3.68 | 1.46 | 1.39 | 15.48 | 0.91 | AGRF1 |
| 45 | 4.40 | 2.90 | 4.07 | 2.67 | 0.76 | 14.65 | 0.97 | AGRF1 |
| 46 | 4.13 | 2.65 | 4.79 | 2.63 | 1.00 | 26.53 | 0.96 | AGRF1 |
| 47 | 4.48 | 2.95 | 4.46 | 2.45 | 0.87 | 15.93 | 0.96 | AGRF1 |
| 48 | 3.50 | 1.79 | 3.51 | 1.53 | 0.64 | 15.06 | 0.94 | AGRF1 |
| 49 | 4.29 | 2.19 | 4.73 | 2.69 | 0.93 | 17.18 | 0.96 | AGRF1 |
| 50 | 4.28 | 2.90 | 4.63 | 2.73 | 0.83 | 17.26 | 0.96 | AGRF1 |
| 51 | 3.53 | 2.28 | 4.55 | 2.74 | 1.29 | 34.68 | 0.96 | AGRF1 |
| 52 | 3.53 | 2.51 | 4.48 | 2.90 | 1.13 | 33.00 | 0.98 | AGRF1 |
| 53 | 4.77 | 2.65 | 4.04 | 2.21 | 0.98 | 14.57 | 0.98 | AGRF1 |
| 54 | 3.79 | 1.79 | 3.50 | 1.53 | 0.68 | 12.44 | 0.94 | AGRF1 |
| 55 | 3.09 | 1.49 | 3.65 | 1.56 | 0.75 | 23.35 | 0.95 | AGRF1 |
| 56 | 4.36 | 2.51 | 4.52 | 2.75 | 0.77 | 12.00 | 0.96 | AGRF1 |
| 57 | 3.83 | 2.09 | 3.63 | 1.99 | 0.63 | 15.88 | 0.96 | AGRF1 |
| 58 | 4.83 | 2.98 | 4.56 | 2.74 | 0.75 | 12.56 | 0.97 | AGRF1 |
|  |  |  |  |  |  |  |  |  |
| 1 | 5.07 | 2.70 | 3.32 | 1.40 | 2.50 | 28.47 | 0.79 | AGRF2 |
| 2 | 5.22 | 3.44 | 4.61 | 2.63 | 1.83 | 19.77 | 0.87 | AGRF2 |
| 3 | 5.69 | 3.48 | 4.80 | 2.74 | 1.38 | 15.35 | 0.97 | AGRF2 |
| 4 | 5.34 | 3.27 | 4.17 | 2.44 | 1.65 | 17.99 | 0.96 | AGRF2 |
| 5 | 4.34 | 2.87 | 4.13 | 2.47 | 0.87 | 18.00 | 0.96 | AGRF2 |
| 6 | 4.90 | 3.14 | 4.62 | 2.60 | 0.90 | 15.60 | 0.97 | AGRF2 |
| 7 | 5.15 | 3.14 | 5.23 | 3.07 | 1.01 | 13.11 | 0.95 | AGRF2 |
| 8 | 3.79 | 1.89 | 2.52 | 1.53 | 2.04 | 34.41 | 0.57 | AGRF2 |
| 9 | 3.99 | 2.42 | 4.38 | 2.40 | 0.57 | 16.25 | 0.98 | AGRF2 |
| 10 | 3.79 | 2.10 | 4.35 | 2.19 | 0.92 | 23.04 | 0.94 | AGRF2 |
| 11 | 4.68 | 2.70 | 4.10 | 2.29 | 0.81 | 12.68 | 0.99 | AGRF2 |
| 12 | 4.38 | 2.53 | 4.01 | 2.37 | 0.87 | 17.89 | 0.95 | AGRF2 |
| 13 | 3.90 | 1.90 | 4.05 | 1.62 | 0.68 | 19.31 | 0.94 | AGRF2 |
| 14 | 3.29 | 1.57 | 4.13 | 1.88 | 0.97 | 28.95 | 0.98 | AGRF2 |
| 15 | 4.39 | 3.02 | 3.98 | 2.52 | 0.91 | 15.83 | 0.97 | AGRF2 |
| 16 | 4.11 | 2.29 | 4.10 | 2.19 | 0.62 | 10.88 | 0.96 | AGRF2 |
| 17 | 3.35 | 1.50 | 3.75 | 1.67 | 0.79 | 20.04 | 0.91 | AGRF2 |
| 18 | 5.24 | 3.09 | 4.74 | 2.71 | 0.77 | 11.10 | 0.99 | AGRF2 |
| 19 | 4.62 | 2.86 | 3.79 | 1.57 | 1.74 | 15.04 | 0.92 | AGRF2 |
| 20 | 3.62 | 2.41 | 4.28 | 2.60 | 0.79 | 21.11 | 0.99 | AGRF2 |
| 21 | 4.34 | 2.71 | 4.24 | 2.41 | 0.74 | 11.12 | 0.96 | AGRF2 |
| 22 | 4.86 | 2.97 | 4.75 | 2.65 | 0.80 | 12.71 | 0.97 | AGRF2 |
| 23 | 5.31 | 3.32 | 4.26 | 2.53 | 1.39 | 18.14 | 0.99 | AGRF2 |
| 24 | 3.52 | 1.60 | 3.55 | 1.36 | 0.57 | 13.19 | 0.94 | AGRF2 |
| 25 | 3.03 | 1.30 | 3.77 | 1.65 | 0.93 | 26.53 | 0.95 | AGRF2 |
| 26 | 4.93 | 2.66 | 4.13 | 1.86 | 1.26 | 14.78 | 0.97 | AGRF2 |
| 27 | 4.37 | 2.38 | 4.83 | 2.71 | 0.65 | 10.47 | 0.99 | AGRF2 |
| 28 | 4.89 | 3.08 | 4.78 | 2.33 | 1.19 | 13.46 | 0.94 | AGRF2 |
| 29 | 4.59 | 3.34 | 4.67 | 2.82 | 0.77 | 12.63 | 0.98 | AGRF2 |
| 30 | 3.39 | 2.07 | 3.91 | 2.39 | 0.74 | 18.72 | 0.98 | AGRF2 |
| 31 | 3.77 | 2.02 | 3.82 | 2.11 | 0.81 | 13.90 | 0.92 | AGRF2 |
| 32 | 4.38 | 2.46 | 4.13 | 2.28 | 0.53 | 11.40 | 0.98 | AGRF2 |
| 33 | 4.71 | 3.38 | 4.41 | 2.63 | 1.09 | 16.90 | 0.97 | AGRF2 |
| 34 | 3.64 | 2.00 | 3.86 | 2.01 | 0.70 | 18.58 | 0.94 | AGRF2 |
| 35 | 3.06 | 1.82 | 3.73 | 2.02 | 0.79 | 27.05 | 0.98 | AGRF2 |
| 36 | 3.20 | 2.11 | 4.53 | 2.67 | 1.57 | 47.18 | 0.97 | AGRF2 |
| 37 | 3.66 | 2.44 | 4.23 | 2.55 | 0.98 | 23.97 | 0.95 | AGRF2 |
| 38 | 4.57 | 2.65 | 3.96 | 2.17 | 0.88 | 13.77 | 0.98 | AGRF2 |
| 39 | 4.53 | 2.87 | 4.32 | 2.42 | 0.74 | 11.62 | 0.98 | AGRF2 |
| 40 | 3.09 | 2.11 | 4.13 | 2.50 | 1.18 | 38.84 | 0.98 | AGRF2 |
| 41 | 3.58 | 2.01 | 4.18 | 2.19 | 0.83 | 24.26 | 0.97 | AGRF2 |
| 42 | 3.36 | 2.02 | 4.27 | 2.58 | 1.20 | 29.62 | 0.97 | AGRF2 |
| 43 | 4.49 | 2.29 | 3.69 | 1.46 | 1.29 | 14.26 | 0.94 | AGRF2 |
| 44 | 4.40 | 2.90 | 3.92 | 2.59 | 0.75 | 14.65 | 0.98 | AGRF2 |
| 45 | 4.13 | 2.65 | 4.57 | 2.55 | 0.69 | 19.57 | 0.98 | AGRF2 |
| 46 | 4.48 | 2.95 | 4.28 | 2.44 | 0.72 | 13.80 | 0.98 | AGRF2 |
| 47 | 3.50 | 1.79 | 3.63 | 1.63 | 0.41 | 14.00 | 0.98 | AGRF2 |
| 48 | 4.29 | 2.19 | 4.80 | 2.75 | 0.83 | 13.94 | 0.99 | AGRF2 |
| 49 | 4.28 | 2.90 | 4.71 | 2.85 | 0.64 | 14.48 | 0.99 | AGRF2 |
| 50 | 3.53 | 2.28 | 4.30 | 2.70 | 0.98 | 26.68 | 0.98 | AGRF2 |
| 51 | 3.53 | 2.51 | 4.31 | 2.88 | 0.91 | 27.66 | 0.99 | AGRF2 |
| 52 | 4.77 | 2.65 | 4.24 | 2.41 | 0.69 | 11.68 | 0.99 | AGRF2 |
| 53 | 3.79 | 1.79 | 3.89 | 1.86 | 0.61 | 12.49 | 0.94 | AGRF2 |
| 54 | 3.09 | 1.49 | 3.96 | 1.77 | 0.99 | 29.85 | 0.97 | AGRF2 |
| 55 | 4.36 | 2.51 | 4.30 | 2.50 | 0.61 | 10.39 | 0.97 | AGRF2 |
| 56 | 3.83 | 2.09 | 3.95 | 2.30 | 0.39 | 10.41 | 0.99 | AGRF2 |
| 57 | 4.83 | 2.98 | 4.51 | 2.71 | 0.60 | 10.79 | 0.99 | AGRF2 |
|  |  |  |  |  |  |  |  |  |
| 1 | 5.07 | 2.70 | 3.31 | 1.41 | 2.52 | 28.67 | 0.78 | AGRF3 |
| 2 | 5.22 | 3.44 | 4.62 | 2.62 | 1.77 | 19.48 | 0.88 | AGRF3 |
| 3 | 5.69 | 3.48 | 4.75 | 2.72 | 1.43 | 15.83 | 0.97 | AGRF3 |
| 4 | 5.34 | 3.27 | 4.17 | 2.46 | 1.64 | 18.18 | 0.96 | AGRF3 |
| 5 | 4.34 | 2.87 | 4.12 | 2.47 | 0.84 | 17.11 | 0.96 | AGRF3 |
| 6 | 4.90 | 3.14 | 4.57 | 2.56 | 0.94 | 15.22 | 0.97 | AGRF3 |
| 7 | 5.15 | 3.14 | 5.03 | 2.95 | 0.88 | 11.10 | 0.96 | AGRF3 |
| 8 | 3.79 | 1.89 | 2.52 | 1.54 | 2.05 | 34.65 | 0.56 | AGRF3 |
| 9 | 3.99 | 2.42 | 4.40 | 2.44 | 0.57 | 16.26 | 0.99 | AGRF3 |
| 10 | 3.79 | 2.10 | 4.41 | 2.21 | 1.00 | 24.18 | 0.93 | AGRF3 |
| 11 | 4.68 | 2.70 | 4.13 | 2.34 | 0.77 | 12.53 | 0.99 | AGRF3 |
| 12 | 4.38 | 2.53 | 3.99 | 2.35 | 0.87 | 17.78 | 0.95 | AGRF3 |
| 13 | 3.90 | 1.90 | 4.04 | 1.60 | 0.70 | 19.38 | 0.93 | AGRF3 |
| 14 | 3.29 | 1.57 | 4.13 | 1.89 | 0.96 | 28.74 | 0.98 | AGRF3 |
| 15 | 4.39 | 3.02 | 3.97 | 2.47 | 0.93 | 16.48 | 0.97 | AGRF3 |
| 16 | 4.11 | 2.29 | 4.06 | 2.17 | 0.83 | 11.22 | 0.93 | AGRF3 |
| 17 | 3.35 | 1.50 | 3.68 | 1.62 | 0.66 | 18.27 | 0.93 | AGRF3 |
| 18 | 5.24 | 3.09 | 4.77 | 2.75 | 0.73 | 10.91 | 0.99 | AGRF3 |
| 19 | 4.34 | 2.71 | 4.24 | 2.37 | 0.76 | 11.30 | 0.96 | AGRF3 |
| 20 | 4.86 | 2.97 | 4.75 | 2.68 | 0.76 | 12.41 | 0.97 | AGRF3 |
| 21 | 5.31 | 3.32 | 4.28 | 2.54 | 1.36 | 17.88 | 0.99 | AGRF3 |
| 22 | 3.52 | 1.60 | 3.53 | 1.35 | 0.59 | 13.05 | 0.93 | AGRF3 |
| 23 | 3.03 | 1.30 | 3.79 | 1.63 | 0.92 | 27.15 | 0.96 | AGRF3 |
| 24 | 4.93 | 2.66 | 4.18 | 1.91 | 1.20 | 14.38 | 0.97 | AGRF3 |
| 25 | 4.37 | 2.38 | 4.83 | 2.71 | 0.65 | 10.64 | 0.99 | AGRF3 |
| 26 | 4.89 | 3.08 | 4.94 | 2.43 | 1.21 | 15.29 | 0.93 | AGRF3 |
| 27 | 4.59 | 3.34 | 4.71 | 2.85 | 0.76 | 13.51 | 0.98 | AGRF3 |
| 28 | 3.39 | 2.07 | 3.95 | 2.41 | 0.78 | 19.78 | 0.98 | AGRF3 |
| 29 | 3.77 | 2.02 | 3.82 | 2.14 | 0.71 | 12.38 | 0.94 | AGRF3 |
| 30 | 4.38 | 2.46 | 4.09 | 2.26 | 0.56 | 11.62 | 0.98 | AGRF3 |
| 31 | 4.71 | 3.38 | 4.39 | 2.63 | 1.08 | 16.72 | 0.97 | AGRF3 |
| 32 | 3.64 | 2.00 | 3.66 | 1.72 | 0.75 | 18.48 | 0.93 | AGRF3 |
| 33 | 3.06 | 1.82 | 3.75 | 2.07 | 0.81 | 26.78 | 0.98 | AGRF3 |
| 34 | 3.20 | 2.11 | 4.55 | 2.67 | 1.58 | 48.04 | 0.97 | AGRF3 |
| 35 | 3.66 | 2.44 | 4.20 | 2.56 | 0.95 | 23.68 | 0.95 | AGRF3 |
| 36 | 4.57 | 2.65 | 3.92 | 2.18 | 0.91 | 14.90 | 0.98 | AGRF3 |
| 37 | 4.53 | 2.87 | 4.42 | 2.47 | 0.68 | 11.76 | 0.98 | AGRF3 |
| 38 | 3.09 | 2.11 | 4.17 | 2.52 | 1.24 | 40.59 | 0.98 | AGRF3 |
| 39 | 3.58 | 2.01 | 4.16 | 2.13 | 0.78 | 23.47 | 0.97 | AGRF3 |
| 40 | 3.36 | 2.02 | 4.28 | 2.51 | 1.18 | 30.69 | 0.97 | AGRF3 |
| 41 | 4.49 | 2.29 | 3.74 | 1.51 | 1.22 | 13.85 | 0.95 | AGRF3 |
| 42 | 4.40 | 2.90 | 4.04 | 2.60 | 0.66 | 14.15 | 0.99 | AGRF3 |
| 43 | 4.13 | 2.65 | 4.61 | 2.61 | 0.71 | 20.11 | 0.98 | AGRF3 |
| 44 | 4.48 | 2.95 | 4.31 | 2.40 | 0.77 | 14.83 | 0.98 | AGRF3 |
| 45 | 3.50 | 1.79 | 3.68 | 1.67 | 0.41 | 13.85 | 0.98 | AGRF3 |
| 46 | 4.29 | 2.19 | 4.75 | 2.76 | 0.82 | 12.53 | 0.99 | AGRF3 |
| 47 | 4.28 | 2.90 | 4.72 | 2.85 | 0.66 | 14.75 | 0.98 | AGRF3 |
| 48 | 3.53 | 2.28 | 4.55 | 2.73 | 1.22 | 34.66 | 0.98 | AGRF3 |
| 49 | 3.53 | 2.51 | 4.22 | 2.74 | 0.77 | 26.06 | 1.00 | AGRF3 |
| 50 | 4.77 | 2.65 | 4.20 | 2.33 | 0.75 | 12.05 | 0.99 | AGRF3 |
| 51 | 3.79 | 1.79 | 3.88 | 1.85 | 0.62 | 12.85 | 0.94 | AGRF3 |
| 52 | 3.09 | 1.49 | 3.97 | 1.79 | 1.00 | 29.83 | 0.97 | AGRF3 |
| 53 | 4.36 | 2.51 | 4.20 | 2.44 | 0.64 | 10.55 | 0.97 | AGRF3 |
| 54 | 3.83 | 2.09 | 3.95 | 2.33 | 0.40 | 10.76 | 0.99 | AGRF3 |
| 55 | 4.83 | 2.98 | 4.55 | 2.73 | 0.57 | 11.09 | 0.99 | AGRF3 |
|  |  |  |  |  |  |  |  |  |
| 1 | 5.07 | 2.70 | 3.30 | 1.32 | 2.80 | 28.22 | 0.59 | FBRF1 |
| 2 | 5.14 | 3.42 | 4.66 | 2.40 | 1.94 | 27.76 | 0.84 | FBRF1 |
| 3 | 5.69 | 3.48 | 4.29 | 2.58 | 2.19 | 21.97 | 0.88 | FBRF1 |
| 4 | 5.34 | 3.27 | 3.97 | 2.26 | 2.30 | 25.33 | 0.83 | FBRF1 |
| 5 | 3.25 | 1.86 | 3.70 | 1.35 | 1.28 | 47.57 | 0.76 | FBRF1 |
| 6 | 3.81 | 3.00 | 3.77 | 2.35 | 0.80 | 24.55 | 0.98 | FBRF1 |
| 7 | 4.92 | 3.26 | 4.77 | 2.60 | 1.31 | 37.47 | 0.92 | FBRF1 |
| 8 | 5.15 | 3.14 | 5.00 | 2.51 | 1.24 | 22.88 | 0.93 | FBRF1 |
| 9 | 3.64 | 1.85 | 3.58 | 1.68 | 1.06 | 23.99 | 0.82 | FBRF1 |
| 10 | 4.07 | 2.41 | 4.12 | 2.26 | 0.94 | 30.38 | 0.92 | FBRF1 |
| 11 | 3.79 | 2.10 | 4.21 | 2.22 | 1.06 | 33.59 | 0.90 | FBRF1 |
| 12 | 4.68 | 2.70 | 3.99 | 2.15 | 1.14 | 17.46 | 0.95 | FBRF1 |
| 13 | 3.84 | 1.94 | 3.59 | 1.54 | 0.92 | 19.67 | 0.89 | FBRF1 |
| 14 | 3.29 | 1.57 | 3.62 | 1.17 | 0.84 | 32.10 | 0.88 | FBRF1 |
| 15 | 4.39 | 3.02 | 3.94 | 2.32 | 1.06 | 25.34 | 0.97 | FBRF1 |
| 16 | 4.11 | 2.29 | 3.91 | 2.11 | 0.60 | 11.50 | 0.97 | FBRF1 |
| 17 | 5.24 | 3.09 | 4.08 | 2.90 | 1.87 | 22.43 | 0.88 | FBRF1 |
| 18 | 4.62 | 2.86 | 4.48 | 2.26 | 0.76 | 15.93 | 0.98 | FBRF1 |
| 19 | 3.62 | 2.41 | 3.65 | 2.40 | 1.22 | 29.46 | 0.87 | FBRF1 |
| 20 | 4.34 | 2.71 | 4.62 | 2.97 | 1.09 | 22.44 | 0.93 | FBRF1 |
| 21 | 4.78 | 3.11 | 4.20 | 3.28 | 2.10 | 33.70 | 0.80 | FBRF1 |
| 22 | 5.27 | 3.45 | 4.30 | 2.49 | 1.57 | 23.36 | 0.96 | FBRF1 |
| 23 | 3.45 | 1.63 | 3.52 | 1.13 | 0.92 | 22.14 | 0.83 | FBRF1 |
| 24 | 3.03 | 1.30 | 3.30 | 1.03 | 1.11 | 36.88 | 0.58 | FBRF1 |
| 25 | 5.02 | 2.64 | 4.39 | 1.72 | 1.40 | 27.30 | 0.92 | FBRF1 |
| 26 | 4.37 | 2.38 | 4.42 | 2.64 | 1.01 | 19.77 | 0.92 | FBRF1 |
| 27 | 4.89 | 3.08 | 5.15 | 2.92 | 1.19 | 19.01 | 0.93 | FBRF1 |
| 28 | 4.59 | 3.34 | 4.56 | 2.90 | 0.66 | 15.95 | 0.99 | FBRF1 |
| 29 | 3.36 | 2.17 | 3.78 | 2.82 | 1.39 | 31.68 | 0.89 | FBRF1 |
| 30 | 3.77 | 2.02 | 3.26 | 2.17 | 1.43 | 25.37 | 0.80 | FBRF1 |
| 31 | 4.31 | 2.45 | 4.21 | 1.98 | 0.99 | 21.66 | 0.92 | FBRF1 |
| 32 | 5.09 | 3.55 | 4.30 | 2.39 | 1.97 | 41.97 | 0.88 | FBRF1 |
| 33 | 3.64 | 2.00 | 3.86 | 1.91 | 1.08 | 30.07 | 0.85 | FBRF1 |
| 34 | 3.06 | 1.82 | 3.75 | 1.86 | 0.92 | 33.47 | 0.94 | FBRF1 |
| 35 | 3.20 | 2.11 | 4.22 | 2.72 | 1.33 | 36.31 | 0.97 | FBRF1 |
| 36 | 3.67 | 2.50 | 4.25 | 2.25 | 1.04 | 38.75 | 0.94 | FBRF1 |
| 37 | 4.52 | 2.67 | 3.42 | 2.12 | 1.63 | 23.50 | 0.89 | FBRF1 |
| 38 | 4.53 | 2.87 | 5.01 | 2.74 | 0.72 | 17.83 | 0.98 | FBRF1 |
| 39 | 3.15 | 1.38 | 3.59 | 1.27 | 0.78 | 27.64 | 0.88 | FBRF1 |
| 40 | 3.09 | 2.11 | 4.31 | 2.42 | 1.47 | 60.10 | 0.94 | FBRF1 |
| 41 | 3.58 | 2.01 | 3.62 | 2.24 | 0.72 | 12.87 | 0.95 | FBRF1 |
| 42 | 3.36 | 2.02 | 3.85 | 2.41 | 1.05 | 27.49 | 0.92 | FBRF1 |
| 43 | 4.50 | 2.32 | 3.39 | 0.99 | 2.16 | 30.24 | 0.61 | FBRF1 |
| 44 | 4.40 | 2.90 | 4.15 | 2.50 | 1.13 | 24.97 | 0.93 | FBRF1 |
| 45 | 4.13 | 2.65 | 4.66 | 2.41 | 1.12 | 32.97 | 0.93 | FBRF1 |
| 46 | 4.48 | 2.95 | 4.72 | 2.35 | 0.96 | 26.65 | 0.96 | FBRF1 |
| 47 | 3.50 | 1.79 | 3.53 | 0.91 | 1.34 | 47.47 | 0.67 | FBRF1 |
| 48 | 4.29 | 2.19 | 4.78 | 2.18 | 0.83 | 18.29 | 0.95 | FBRF1 |
| 49 | 4.28 | 2.90 | 5.35 | 2.75 | 1.51 | 44.07 | 0.93 | FBRF1 |
| 50 | 3.73 | 2.26 | 5.19 | 2.21 | 1.98 | 65.15 | 0.82 | FBRF1 |
| 51 | 3.53 | 2.51 | 4.49 | 2.84 | 1.23 | 40.56 | 0.96 | FBRF1 |
| 52 | 4.77 | 2.65 | 3.75 | 1.83 | 1.60 | 28.35 | 0.91 | FBRF1 |
| 53 | 3.79 | 1.79 | 3.36 | 1.10 | 1.04 | 21.35 | 0.88 | FBRF1 |
| 54 | 3.09 | 1.49 | 3.73 | 1.35 | 1.01 | 35.71 | 0.85 | FBRF1 |
| 55 | 4.33 | 2.53 | 4.99 | 2.67 | 1.09 | 21.85 | 0.95 | FBRF1 |
| 56 | 3.80 | 2.11 | 4.74 | 2.08 | 1.43 | 41.66 | 0.86 | FBRF1 |
| 57 | 4.83 | 2.98 | 4.28 | 2.61 | 1.02 | 19.54 | 0.96 | FBRF1 |
|  |  |  |  |  |  |  |  |  |
| 1 | 5.07 | 2.70 | 3.33 | 1.28 | 2.74 | 27.55 | 0.63 | FBRF2 |
| 2 | 5.14 | 3.42 | 4.37 | 2.26 | 2.14 | 27.58 | 0.82 | FBRF2 |
| 3 | 5.69 | 3.48 | 4.29 | 2.38 | 2.25 | 21.39 | 0.88 | FBRF2 |
| 4 | 5.34 | 3.27 | 4.21 | 2.28 | 2.18 | 29.11 | 0.83 | FBRF2 |
| 5 | 3.25 | 1.86 | 3.76 | 1.32 | 1.28 | 48.21 | 0.77 | FBRF2 |
| 6 | 3.81 | 3.00 | 3.71 | 2.16 | 0.96 | 27.57 | 0.98 | FBRF2 |
| 7 | 4.92 | 3.26 | 4.59 | 2.31 | 1.44 | 38.51 | 0.93 | FBRF2 |
| 8 | 5.15 | 3.14 | 4.54 | 2.26 | 1.54 | 26.68 | 0.91 | FBRF2 |
| 9 | 3.64 | 1.85 | 3.86 | 1.71 | 1.07 | 27.67 | 0.82 | FBRF2 |
| 10 | 4.07 | 2.41 | 4.15 | 2.07 | 1.00 | 38.03 | 0.91 | FBRF2 |
| 11 | 3.79 | 2.10 | 4.04 | 1.97 | 1.08 | 41.32 | 0.86 | FBRF2 |
| 12 | 4.68 | 2.70 | 4.13 | 2.11 | 1.10 | 18.57 | 0.95 | FBRF2 |
| 13 | 3.84 | 1.94 | 3.45 | 1.37 | 0.98 | 18.62 | 0.90 | FBRF2 |
| 14 | 3.29 | 1.57 | 3.49 | 1.11 | 0.81 | 29.98 | 0.88 | FBRF2 |
| 15 | 4.39 | 3.02 | 3.80 | 2.14 | 1.23 | 29.21 | 0.97 | FBRF2 |
| 16 | 4.11 | 2.29 | 4.08 | 1.98 | 0.66 | 16.46 | 0.96 | FBRF2 |
| 17 | 5.24 | 3.09 | 4.21 | 2.92 | 1.81 | 25.35 | 0.88 | FBRF2 |
| 18 | 4.34 | 2.71 | 4.67 | 2.86 | 1.02 | 21.92 | 0.94 | FBRF2 |
| 19 | 4.78 | 3.11 | 4.03 | 2.96 | 2.04 | 32.87 | 0.80 | FBRF2 |
| 20 | 5.27 | 3.45 | 4.56 | 2.46 | 1.42 | 21.23 | 0.97 | FBRF2 |
| 21 | 3.45 | 1.63 | 3.24 | 0.96 | 0.95 | 22.21 | 0.86 | FBRF2 |
| 22 | 3.03 | 1.30 | 3.29 | 1.08 | 1.14 | 36.53 | 0.56 | FBRF2 |
| 23 | 5.02 | 2.64 | 4.42 | 1.68 | 1.45 | 29.63 | 0.90 | FBRF2 |
| 24 | 4.37 | 2.38 | 4.49 | 2.60 | 1.08 | 24.22 | 0.91 | FBRF2 |
| 25 | 4.89 | 3.08 | 4.81 | 2.76 | 0.82 | 14.75 | 0.97 | FBRF2 |
| 26 | 4.59 | 3.34 | 4.42 | 2.72 | 0.80 | 18.77 | 0.99 | FBRF2 |
| 27 | 3.36 | 2.17 | 3.98 | 2.77 | 1.44 | 36.55 | 0.89 | FBRF2 |
| 28 | 3.77 | 2.02 | 3.43 | 2.16 | 1.39 | 29.61 | 0.79 | FBRF2 |
| 29 | 4.31 | 2.45 | 3.99 | 1.78 | 1.13 | 24.79 | 0.91 | FBRF2 |
| 30 | 5.09 | 3.55 | 4.33 | 2.33 | 1.91 | 41.93 | 0.90 | FBRF2 |
| 31 | 3.64 | 2.00 | 3.89 | 1.81 | 1.12 | 35.52 | 0.84 | FBRF2 |
| 32 | 3.06 | 1.82 | 3.80 | 1.87 | 0.87 | 35.29 | 0.97 | FBRF2 |
| 33 | 3.20 | 2.11 | 4.27 | 2.71 | 1.37 | 38.60 | 0.97 | FBRF2 |
| 34 | 3.67 | 2.50 | 4.02 | 2.04 | 0.98 | 37.62 | 0.94 | FBRF2 |
| 35 | 4.52 | 2.67 | 3.36 | 1.91 | 1.72 | 24.78 | 0.89 | FBRF2 |
| 36 | 4.53 | 2.87 | 4.93 | 2.63 | 0.73 | 19.24 | 0.98 | FBRF2 |
| 37 | 3.15 | 1.38 | 3.66 | 1.21 | 0.81 | 31.37 | 0.89 | FBRF2 |
| 38 | 3.09 | 2.11 | 4.26 | 2.33 | 1.46 | 62.48 | 0.92 | FBRF2 |
| 39 | 3.58 | 2.01 | 3.56 | 2.16 | 0.75 | 14.33 | 0.94 | FBRF2 |
| 40 | 3.36 | 2.02 | 3.74 | 2.34 | 0.96 | 24.82 | 0.93 | FBRF2 |
| 41 | 4.50 | 2.32 | 3.43 | 1.02 | 2.11 | 30.17 | 0.63 | FBRF2 |
| 42 | 4.40 | 2.90 | 4.28 | 2.48 | 1.09 | 24.43 | 0.93 | FBRF2 |
| 43 | 4.13 | 2.65 | 4.68 | 2.51 | 1.11 | 32.55 | 0.93 | FBRF2 |
| 44 | 4.48 | 2.95 | 4.76 | 2.11 | 1.18 | 35.93 | 0.95 | FBRF2 |
| 45 | 3.50 | 1.79 | 3.54 | 1.03 | 1.28 | 43.06 | 0.70 | FBRF2 |
| 46 | 4.29 | 2.19 | 4.59 | 2.38 | 0.70 | 14.26 | 0.96 | FBRF2 |
| 47 | 4.28 | 2.90 | 5.12 | 2.67 | 1.27 | 39.59 | 0.94 | FBRF2 |
| 48 | 3.73 | 2.26 | 5.67 | 2.16 | 2.41 | 83.52 | 0.79 | FBRF2 |
| 49 | 3.53 | 2.51 | 4.35 | 2.51 | 1.09 | 45.19 | 0.96 | FBRF2 |
| 50 | 4.77 | 2.65 | 3.79 | 1.74 | 1.62 | 29.86 | 0.90 | FBRF2 |
| 51 | 3.79 | 1.79 | 3.52 | 1.00 | 1.04 | 27.03 | 0.88 | FBRF2 |
| 52 | 3.09 | 1.49 | 3.67 | 1.08 | 0.97 | 41.28 | 0.86 | FBRF2 |
| 53 | 4.33 | 2.53 | 5.01 | 2.68 | 1.11 | 24.17 | 0.94 | FBRF2 |
| 54 | 3.80 | 2.11 | 4.17 | 1.90 | 0.90 | 25.52 | 0.92 | FBRF2 |
| 55 | 4.83 | 2.98 | 4.29 | 2.51 | 1.05 | 21.54 | 0.96 | FBRF2 |
|  |  |  |  |  |  |  |  |  |
| 1 | 5.07 | 2.70 | 3.75 | 1.56 | 2.08 | 23.87 | 0.84 | SWRF1 |
| 2 | 5.16 | 3.41 | 5.25 | 2.62 | 2.34 | 43.21 | 0.72 | SWRF1 |
| 3 | 5.69 | 3.48 | 4.26 | 2.53 | 2.25 | 21.97 | 0.87 | SWRF1 |
| 4 | 5.34 | 3.27 | 4.08 | 2.38 | 2.04 | 19.40 | 0.88 | SWRF1 |
| 5 | 3.25 | 1.86 | 3.69 | 1.55 | 1.27 | 35.02 | 0.76 | SWRF1 |
| 6 | 4.34 | 2.87 | 5.18 | 2.46 | 1.58 | 42.94 | 0.88 | SWRF1 |
| 7 | 4.90 | 3.14 | 4.75 | 2.51 | 1.03 | 20.15 | 0.96 | SWRF1 |
| 8 | 5.15 | 3.14 | 5.03 | 2.85 | 1.63 | 22.71 | 0.85 | SWRF1 |
| 9 | 3.79 | 1.89 | 3.37 | 1.38 | 1.03 | 21.18 | 0.87 | SWRF1 |
| 10 | 3.99 | 2.42 | 4.16 | 2.25 | 1.35 | 27.95 | 0.83 | SWRF1 |
| 11 | 3.79 | 2.10 | 4.17 | 1.89 | 0.89 | 25.74 | 0.92 | SWRF1 |
| 12 | 4.68 | 2.70 | 4.24 | 2.21 | 0.81 | 11.11 | 0.98 | SWRF1 |
| 13 | 4.38 | 2.53 | 3.97 | 2.14 | 0.97 | 17.26 | 0.94 | SWRF1 |
| 14 | 3.90 | 1.90 | 3.66 | 1.48 | 0.80 | 14.63 | 0.92 | SWRF1 |
| 15 | 3.29 | 1.57 | 4.01 | 1.66 | 0.94 | 27.83 | 0.93 | SWRF1 |
| 16 | 4.39 | 3.02 | 5.11 | 2.71 | 1.34 | 39.42 | 0.93 | SWRF1 |
| 17 | 4.11 | 2.29 | 4.11 | 2.25 | 0.57 | 12.53 | 0.97 | SWRF1 |
| 18 | 3.35 | 1.50 | 3.53 | 1.39 | 0.57 | 15.38 | 0.93 | SWRF1 |
| 19 | 5.24 | 3.09 | 4.02 | 1.75 | 1.98 | 20.87 | 0.93 | SWRF1 |
| 20 | 4.62 | 2.86 | 4.61 | 2.70 | 0.70 | 11.78 | 0.97 | SWRF1 |
| 21 | 3.62 | 2.41 | 3.89 | 2.40 | 0.74 | 18.67 | 0.96 | SWRF1 |
| 22 | 4.34 | 2.71 | 4.24 | 2.52 | 0.78 | 13.79 | 0.96 | SWRF1 |
| 23 | 4.86 | 2.97 | 4.50 | 2.64 | 1.12 | 16.38 | 0.93 | SWRF1 |
| 24 | 5.31 | 3.32 | 4.20 | 2.50 | 1.52 | 19.32 | 0.97 | SWRF1 |
| 25 | 3.45 | 1.63 | 3.29 | 1.24 | 0.82 | 16.64 | 0.87 | SWRF1 |
| 26 | 3.03 | 1.30 | 3.35 | 1.29 | 0.62 | 18.30 | 0.91 | SWRF1 |
| 27 | 4.93 | 2.66 | 4.19 | 1.67 | 1.47 | 18.50 | 0.93 | SWRF1 |
| 28 | 4.37 | 2.38 | 4.65 | 2.56 | 0.90 | 16.56 | 0.94 | SWRF1 |
| 29 | 4.89 | 3.08 | 4.22 | 2.79 | 1.30 | 17.51 | 0.93 | SWRF1 |
| 30 | 4.59 | 3.34 | 4.85 | 2.65 | 1.07 | 21.54 | 0.96 | SWRF1 |
| 31 | 3.39 | 2.07 | 3.96 | 2.37 | 0.90 | 22.88 | 0.96 | SWRF1 |
| 32 | 3.77 | 2.02 | 3.81 | 1.86 | 0.72 | 15.10 | 0.93 | SWRF1 |
| 33 | 4.31 | 2.45 | 3.99 | 2.08 | 1.29 | 19.91 | 0.86 | SWRF1 |
| 34 | 4.71 | 3.38 | 4.31 | 2.64 | 1.58 | 20.12 | 0.90 | SWRF1 |
| 35 | 3.64 | 2.00 | 4.37 | 1.85 | 1.22 | 37.53 | 0.87 | SWRF1 |
| 36 | 3.06 | 1.82 | 4.32 | 2.36 | 1.65 | 52.95 | 0.90 | SWRF1 |
| 37 | 3.20 | 2.11 | 4.26 | 2.41 | 1.65 | 54.04 | 0.85 | SWRF1 |
| 38 | 3.66 | 2.44 | 4.04 | 2.13 | 0.93 | 24.76 | 0.94 | SWRF1 |
| 39 | 4.57 | 2.65 | 4.17 | 2.19 | 0.87 | 12.19 | 0.96 | SWRF1 |
| 40 | 4.53 | 2.87 | 4.54 | 2.59 | 0.74 | 12.65 | 0.97 | SWRF1 |
| 41 | 3.15 | 1.38 | 3.70 | 1.20 | 0.96 | 34.85 | 0.82 | SWRF1 |
| 42 | 3.09 | 2.11 | 4.30 | 2.42 | 1.36 | 47.79 | 0.97 | SWRF1 |
| 43 | 3.58 | 2.01 | 3.99 | 2.08 | 0.65 | 18.79 | 0.97 | SWRF1 |
| 44 | 3.36 | 2.02 | 3.97 | 2.06 | 1.01 | 30.17 | 0.92 | SWRF1 |
| 45 | 4.49 | 2.29 | 3.90 | 1.67 | 1.20 | 15.22 | 0.90 | SWRF1 |
| 46 | 4.40 | 2.90 | 4.21 | 2.26 | 1.19 | 21.79 | 0.92 | SWRF1 |
| 47 | 4.13 | 2.65 | 4.98 | 2.42 | 1.75 | 42.37 | 0.82 | SWRF1 |
| 48 | 4.48 | 2.95 | 4.46 | 2.43 | 1.42 | 23.26 | 0.87 | SWRF1 |
| 49 | 3.50 | 1.79 | 3.44 | 1.36 | 0.88 | 19.41 | 0.88 | SWRF1 |
| 50 | 4.29 | 2.19 | 4.49 | 2.30 | 0.71 | 14.80 | 0.95 | SWRF1 |
| 51 | 4.28 | 2.90 | 4.64 | 2.50 | 1.05 | 22.37 | 0.94 | SWRF1 |
| 52 | 3.53 | 2.28 | 4.32 | 2.46 | 1.13 | 35.40 | 0.94 | SWRF1 |
| 53 | 3.53 | 2.51 | 4.08 | 2.49 | 0.95 | 31.44 | 0.95 | SWRF1 |
| 54 | 4.77 | 2.65 | 4.01 | 2.33 | 1.13 | 15.50 | 0.95 | SWRF1 |
| 55 | 3.79 | 1.79 | 3.11 | 1.29 | 1.13 | 18.30 | 0.87 | SWRF1 |
| 56 | 3.09 | 1.49 | 3.89 | 1.56 | 1.18 | 38.19 | 0.83 | SWRF1 |
| 57 | 4.36 | 2.51 | 4.42 | 2.37 | 1.00 | 17.90 | 0.92 | SWRF1 |
| 58 | 3.83 | 2.09 | 3.47 | 1.96 | 0.67 | 12.60 | 0.96 | SWRF1 |
| 59 | 4.83 | 2.98 | 4.50 | 2.57 | 0.74 | 11.06 | 0.98 | SWRF1 |
|  |  |  |  |  |  |  |  |  |
| 1 | 5.07 | 2.70 | 3.61 | 1.59 | 1.98 | 24.41 | 0.93 | SWRF2 |
| 2 | 5.22 | 3.44 | 5.08 | 2.66 | 1.83 | 26.32 | 0.85 | SWRF2 |
| 3 | 5.69 | 3.48 | 4.53 | 2.69 | 1.75 | 17.26 | 0.94 | SWRF2 |
| 4 | 5.34 | 3.27 | 4.17 | 2.42 | 1.64 | 18.37 | 0.96 | SWRF2 |
| 5 | 3.25 | 1.86 | 3.27 | 1.42 | 0.83 | 20.88 | 0.90 | SWRF2 |
| 6 | 4.34 | 2.87 | 4.77 | 2.69 | 0.83 | 22.55 | 0.97 | SWRF2 |
| 7 | 4.90 | 3.14 | 4.83 | 2.62 | 0.92 | 18.89 | 0.96 | SWRF2 |
| 8 | 5.15 | 3.14 | 5.71 | 3.01 | 1.40 | 23.10 | 0.91 | SWRF2 |
| 9 | 3.79 | 1.89 | 3.30 | 1.38 | 0.95 | 18.37 | 0.92 | SWRF2 |
| 10 | 3.99 | 2.42 | 4.40 | 2.19 | 1.04 | 26.86 | 0.92 | SWRF2 |
| 11 | 3.79 | 2.10 | 4.15 | 2.17 | 0.63 | 16.54 | 0.97 | SWRF2 |
| 12 | 4.68 | 2.70 | 4.24 | 2.31 | 0.68 | 10.42 | 0.99 | SWRF2 |
| 13 | 4.38 | 2.53 | 4.20 | 2.32 | 0.59 | 13.63 | 0.98 | SWRF2 |
| 14 | 3.90 | 1.90 | 4.98 | 2.35 | 1.51 | 31.03 | 0.89 | SWRF2 |
| 15 | 3.29 | 1.57 | 3.89 | 1.76 | 0.70 | 19.10 | 0.98 | SWRF2 |
| 16 | 4.39 | 3.02 | 3.99 | 2.44 | 1.05 | 19.62 | 0.96 | SWRF2 |
| 17 | 4.11 | 2.29 | 3.91 | 2.33 | 0.61 | 12.00 | 0.97 | SWRF2 |
| 18 | 3.35 | 1.50 | 3.59 | 1.52 | 0.64 | 15.91 | 0.92 | SWRF2 |
| 19 | 5.24 | 3.09 | 4.47 | 2.29 | 1.21 | 11.92 | 0.98 | SWRF2 |
| 20 | 4.62 | 2.86 | 4.18 | 2.40 | 0.79 | 11.01 | 0.98 | SWRF2 |
| 21 | 3.62 | 2.41 | 4.31 | 2.66 | 0.81 | 21.37 | 0.99 | SWRF2 |
| 22 | 4.34 | 2.71 | 3.89 | 2.37 | 0.79 | 11.68 | 0.97 | SWRF2 |
| 23 | 4.86 | 2.97 | 4.43 | 2.64 | 0.88 | 13.24 | 0.97 | SWRF2 |
| 24 | 5.31 | 3.32 | 4.20 | 2.64 | 1.39 | 20.50 | 0.99 | SWRF2 |
| 25 | 3.52 | 1.60 | 3.54 | 1.31 | 0.69 | 16.60 | 0.90 | SWRF2 |
| 26 | 3.03 | 1.30 | 3.74 | 1.61 | 0.87 | 25.40 | 0.96 | SWRF2 |
| 27 | 4.93 | 2.66 | 4.33 | 2.04 | 1.02 | 12.65 | 0.97 | SWRF2 |
| 28 | 4.37 | 2.38 | 4.98 | 2.52 | 0.91 | 18.27 | 0.96 | SWRF2 |
| 29 | 4.89 | 3.08 | 5.42 | 2.88 | 1.26 | 22.48 | 0.93 | SWRF2 |
| 30 | 4.59 | 3.34 | 4.77 | 2.93 | 0.66 | 13.46 | 0.99 | SWRF2 |
| 31 | 3.39 | 2.07 | 3.93 | 2.44 | 0.74 | 16.24 | 0.99 | SWRF2 |
| 32 | 3.77 | 2.02 | 3.64 | 1.85 | 0.51 | 9.54 | 0.97 | SWRF2 |
| 33 | 4.38 | 2.46 | 3.86 | 2.05 | 0.97 | 15.92 | 0.95 | SWRF2 |
| 34 | 4.71 | 3.38 | 4.35 | 2.87 | 1.08 | 14.85 | 0.96 | SWRF2 |
| 35 | 3.64 | 2.00 | 3.96 | 1.87 | 0.76 | 21.56 | 0.94 | SWRF2 |
| 36 | 3.06 | 1.82 | 3.68 | 2.14 | 0.89 | 28.43 | 0.96 | SWRF2 |
| 37 | 3.20 | 2.11 | 4.27 | 2.53 | 1.39 | 42.77 | 0.94 | SWRF2 |
| 38 | 3.66 | 2.44 | 3.76 | 2.15 | 0.66 | 18.16 | 0.97 | SWRF2 |
| 39 | 4.57 | 2.65 | 3.86 | 2.12 | 1.00 | 14.31 | 0.98 | SWRF2 |
| 40 | 4.53 | 2.87 | 4.56 | 2.81 | 0.53 | 10.10 | 0.98 | SWRF2 |
| 41 | 3.09 | 2.11 | 4.06 | 2.43 | 1.10 | 38.38 | 0.98 | SWRF2 |
| 42 | 3.58 | 2.01 | 3.87 | 2.20 | 0.62 | 15.96 | 0.97 | SWRF2 |
| 43 | 3.36 | 2.02 | 4.38 | 2.29 | 1.27 | 38.81 | 0.94 | SWRF2 |
| 44 | 4.49 | 2.29 | 3.68 | 1.57 | 1.17 | 15.93 | 0.97 | SWRF2 |
| 45 | 4.40 | 2.90 | 4.10 | 2.36 | 0.95 | 18.56 | 0.96 | SWRF2 |
| 46 | 4.13 | 2.65 | 4.57 | 2.45 | 1.13 | 26.20 | 0.92 | SWRF2 |
| 47 | 4.48 | 2.95 | 4.26 | 2.41 | 0.93 | 14.34 | 0.96 | SWRF2 |
| 48 | 3.50 | 1.79 | 3.65 | 1.49 | 0.65 | 18.87 | 0.94 | SWRF2 |
| 49 | 4.29 | 2.19 | 4.65 | 2.53 | 0.68 | 14.05 | 0.98 | SWRF2 |
| 50 | 4.28 | 2.90 | 4.72 | 2.70 | 0.79 | 17.53 | 0.97 | SWRF2 |
| 51 | 3.53 | 2.28 | 4.10 | 2.63 | 0.87 | 24.96 | 0.97 | SWRF2 |
| 52 | 3.53 | 2.51 | 3.96 | 2.59 | 0.57 | 20.60 | 0.99 | SWRF2 |
| 53 | 4.77 | 2.65 | 4.23 | 2.44 | 0.78 | 12.57 | 0.98 | SWRF2 |
| 54 | 3.79 | 1.79 | 3.75 | 1.63 | 0.43 | 8.84 | 0.97 | SWRF2 |
| 55 | 3.09 | 1.49 | 3.96 | 1.69 | 1.02 | 32.41 | 0.95 | SWRF2 |
| 56 | 4.36 | 2.51 | 4.01 | 2.15 | 0.83 | 11.77 | 0.96 | SWRF2 |
| 57 | 3.83 | 2.09 | 3.93 | 2.22 | 0.37 | 9.73 | 0.99 | SWRF2 |
| 58 | 4.83 | 2.98 | 4.67 | 2.74 | 0.46 | 8.12 | 0.99 | SWRF2 |
|  |  |  |  |  |  |  |  |  |
| 1 | 5.07 | 2.70 | 3.68 | 1.64 | 1.85 | 23.36 | 0.95 | SWRF3 |
| 2 | 5.22 | 3.44 | 5.10 | 2.67 | 1.81 | 26.49 | 0.85 | SWRF3 |
| 3 | 5.69 | 3.48 | 4.51 | 2.69 | 1.78 | 17.46 | 0.94 | SWRF3 |
| 4 | 5.34 | 3.27 | 4.19 | 2.41 | 1.68 | 17.99 | 0.95 | SWRF3 |
| 5 | 3.25 | 1.86 | 3.31 | 1.44 | 0.89 | 22.77 | 0.88 | SWRF3 |
| 6 | 4.34 | 2.87 | 4.64 | 2.59 | 0.83 | 22.41 | 0.96 | SWRF3 |
| 7 | 4.90 | 3.14 | 4.80 | 2.60 | 0.94 | 18.67 | 0.96 | SWRF3 |
| 8 | 5.15 | 3.14 | 5.63 | 3.02 | 1.35 | 21.27 | 0.91 | SWRF3 |
| 9 | 3.79 | 1.89 | 3.31 | 1.39 | 0.95 | 18.77 | 0.91 | SWRF3 |
| 10 | 3.99 | 2.42 | 4.40 | 2.20 | 1.07 | 27.34 | 0.91 | SWRF3 |
| 11 | 3.79 | 2.10 | 4.13 | 2.14 | 0.62 | 16.13 | 0.97 | SWRF3 |
| 12 | 4.68 | 2.70 | 4.30 | 2.41 | 0.62 | 10.00 | 0.99 | SWRF3 |
| 13 | 4.38 | 2.53 | 4.18 | 2.32 | 0.61 | 13.84 | 0.97 | SWRF3 |
| 14 | 3.90 | 1.90 | 4.93 | 2.31 | 1.44 | 30.70 | 0.90 | SWRF3 |
| 15 | 3.29 | 1.57 | 3.82 | 1.72 | 0.65 | 17.59 | 0.98 | SWRF3 |
| 16 | 4.39 | 3.02 | 4.00 | 2.36 | 1.07 | 21.33 | 0.96 | SWRF3 |
| 17 | 4.11 | 2.29 | 3.99 | 2.36 | 0.61 | 11.79 | 0.97 | SWRF3 |
| 18 | 3.35 | 1.50 | 3.61 | 1.54 | 0.63 | 15.39 | 0.93 | SWRF3 |
| 19 | 5.24 | 3.09 | 4.47 | 2.27 | 1.24 | 12.30 | 0.98 | SWRF3 |
| 20 | 4.34 | 2.71 | 3.87 | 2.28 | 0.82 | 12.38 | 0.98 | SWRF3 |
| 21 | 4.86 | 2.97 | 4.39 | 2.58 | 0.94 | 13.80 | 0.96 | SWRF3 |
| 22 | 5.31 | 3.32 | 4.23 | 2.64 | 1.36 | 19.83 | 0.99 | SWRF3 |
| 23 | 3.52 | 1.60 | 3.51 | 1.33 | 0.70 | 16.25 | 0.90 | SWRF3 |
| 24 | 3.03 | 1.30 | 3.87 | 1.61 | 0.98 | 29.70 | 0.96 | SWRF3 |
| 25 | 4.93 | 2.66 | 4.35 | 2.03 | 1.03 | 13.15 | 0.97 | SWRF3 |
| 26 | 4.37 | 2.38 | 4.98 | 2.52 | 0.90 | 18.19 | 0.96 | SWRF3 |
| 27 | 4.89 | 3.08 | 5.71 | 2.93 | 1.54 | 28.00 | 0.90 | SWRF3 |
| 28 | 4.59 | 3.34 | 4.87 | 2.91 | 0.73 | 16.33 | 0.99 | SWRF3 |
| 29 | 3.39 | 2.07 | 3.97 | 2.48 | 0.80 | 17.55 | 0.99 | SWRF3 |
| 30 | 3.77 | 2.02 | 3.65 | 1.82 | 0.53 | 10.10 | 0.97 | SWRF3 |
| 31 | 4.38 | 2.46 | 3.78 | 1.95 | 1.01 | 16.79 | 0.95 | SWRF3 |
| 32 | 4.71 | 3.38 | 4.33 | 2.78 | 1.13 | 15.60 | 0.96 | SWRF3 |
| 33 | 3.64 | 2.00 | 3.89 | 1.83 | 0.73 | 20.16 | 0.94 | SWRF3 |
| 34 | 3.06 | 1.82 | 3.70 | 2.11 | 0.92 | 29.66 | 0.95 | SWRF3 |
| 35 | 3.20 | 2.11 | 4.28 | 2.51 | 1.38 | 43.09 | 0.94 | SWRF3 |
| 36 | 3.66 | 2.44 | 3.74 | 2.08 | 0.68 | 18.62 | 0.97 | SWRF3 |
| 37 | 4.57 | 2.65 | 3.84 | 2.09 | 1.01 | 14.71 | 0.98 | SWRF3 |
| 38 | 4.53 | 2.87 | 4.62 | 2.77 | 0.52 | 10.90 | 0.98 | SWRF3 |
| 39 | 3.09 | 2.11 | 4.04 | 2.38 | 1.07 | 38.71 | 0.98 | SWRF3 |
| 40 | 3.58 | 2.01 | 3.85 | 2.18 | 0.60 | 15.82 | 0.97 | SWRF3 |
| 41 | 3.36 | 2.02 | 4.33 | 2.25 | 1.23 | 37.88 | 0.94 | SWRF3 |
| 42 | 4.49 | 2.29 | 3.67 | 1.57 | 1.17 | 16.33 | 0.97 | SWRF3 |
| 43 | 4.40 | 2.90 | 4.19 | 2.36 | 0.93 | 18.93 | 0.96 | SWRF3 |
| 44 | 4.13 | 2.65 | 4.66 | 2.52 | 1.17 | 27.42 | 0.92 | SWRF3 |
| 45 | 4.48 | 2.95 | 4.31 | 2.43 | 0.97 | 16.28 | 0.95 | SWRF3 |
| 46 | 3.50 | 1.79 | 3.65 | 1.47 | 0.66 | 19.23 | 0.94 | SWRF3 |
| 47 | 4.29 | 2.19 | 4.58 | 2.55 | 0.63 | 12.92 | 0.98 | SWRF3 |
| 48 | 4.28 | 2.90 | 4.80 | 2.75 | 0.85 | 18.86 | 0.97 | SWRF3 |
| 49 | 3.53 | 2.28 | 4.20 | 2.57 | 0.89 | 26.86 | 0.98 | SWRF3 |
| 50 | 3.53 | 2.51 | 3.99 | 2.61 | 0.62 | 22.08 | 0.99 | SWRF3 |
| 51 | 4.77 | 2.65 | 4.22 | 2.43 | 0.77 | 12.82 | 0.98 | SWRF3 |
| 52 | 3.79 | 1.79 | 3.76 | 1.62 | 0.45 | 9.38 | 0.97 | SWRF3 |
| 53 | 3.09 | 1.49 | 3.93 | 1.68 | 1.01 | 32.04 | 0.95 | SWRF3 |
| 54 | 4.36 | 2.51 | 3.99 | 2.15 | 0.85 | 12.21 | 0.96 | SWRF3 |
| 55 | 3.83 | 2.09 | 3.86 | 2.18 | 0.33 | 9.51 | 0.99 | SWRF3 |
| 56 | 4.83 | 2.98 | 4.66 | 2.74 | 0.44 | 7.94 | 0.99 | SWRF3 |

Abbreviations: Metabolic equivalents (METs), Root mean squared error (RMSE), Mean absolute percentage error (MAPE), Actigraph random forest (AGRF), Fitbit random forest (FBRF), Sensewear random forest (SWRF).