

Table 2.3. Blood glucose levels after a test meal (just after time 0)

| | | Time (minutes) | | | | | | | | | | | |
|-----------------|---|----------------|------|------|-------|-------|------|------|------|-------|-------|------|--|
| | | -15 | 0 | 30 | 60 | 90 | 120 | 160 | 240 | 300 | 360 | 420 | |
| Subject | | | | | | | | | | | | | |
| 10 a.m. meal | 1 | 4.90 | 4.50 | 7.84 | 5.46 | 5.08 | 4.32 | 3.91 | 3.99 | 4.15 | 4.41 | | |
| | 2 | 4.61 | 4.65 | 7.90 | 6.13 | 4.45 | 4.17 | 4.96 | 4.36 | 4.26 | 4.13 | | |
| | 3 | 5.37 | 5.35 | 7.94 | 5.64 | 5.06 | 5.49 | 4.77 | 4.48 | 4.39 | 4.45 | | |
| | 4 | 5.10 | 5.22 | 7.20 | 4.95 | 4.45 | 3.88 | 3.65 | 4.21 | -1.00 | 4.44 | | |
| | 5 | 5.34 | 4.91 | 5.69 | 8.21 | 2.97 | 4.30 | 4.18 | 4.93 | 5.16 | 5.54 | | |
| | 6 | 5.24 | 5.04 | 8.72 | 4.85 | 5.57 | 6.33 | 4.81 | 4.55 | 4.48 | 5.15 | | |
| 2 p.m. meal | 1 | 4.91 | 4.18 | 9.00 | 9.74 | 6.95 | 6.92 | 4.66 | 3.45 | 4.20 | 4.63 | | |
| | 2 | 4.16 | 3.42 | 7.09 | 6.98 | 6.13 | 5.36 | 6.13 | 3.67 | 4.37 | 4.31 | | |
| | 3 | 4.95 | 4.40 | 7.00 | 7.80 | 7.78 | 7.30 | 5.82 | 5.14 | 3.59 | 4.00 | | |
| | 4 | 3.82 | 4.00 | 6.56 | 6.48 | 5.66 | 7.74 | 4.45 | 4.07 | 3.73 | 3.58 | | |
| | 5 | 3.76 | 4.70 | 6.76 | 4.98 | 5.02 | 5.95 | 4.90 | 4.79 | 5.25 | 5.42 | | |
| | 6 | 4.13 | 3.95 | 5.53 | 8.55 | 7.09 | 5.34 | 5.56 | 4.23 | 3.95 | 4.29 | | |
| 6 a.m. meal | 1 | 4.22 | 4.92 | 8.09 | 6.74 | 4.30 | 4.28 | 4.59 | 4.49 | 5.26 | 4.95 | 4.34 | |
| | 2 | 4.52 | 4.22 | 8.46 | 9.12 | 7.50 | 6.02 | 4.66 | 4.69 | 4.26 | 4.29 | 4.47 | |
| | 3 | 4.47 | 4.47 | 7.95 | 7.21 | 6.35 | 5.58 | 4.57 | 3.90 | 3.44 | 4.18 | 4.32 | |
| | 4 | 4.27 | 4.33 | 6.61 | 6.89 | 5.64 | 4.85 | 4.82 | 3.82 | 4.31 | 3.81 | 2.92 | |
| | 5 | 4.81 | 4.85 | 6.08 | 8.28 | 5.73 | 5.68 | 4.66 | 4.62 | 4.85 | 4.69 | 4.86 | |
| | 6 | 4.61 | 4.68 | 6.01 | 7.35 | 6.38 | 6.16 | 4.41 | 4.96 | 4.33 | 4.54 | 4.81 | |
| 6 p.m. meal | 1 | 4.05 | 3.78 | 8.71 | 7.12 | 6.17 | 4.22 | 4.31 | 3.15 | 3.64 | 3.88 | | |
| | 2 | 3.94 | 4.14 | 7.82 | 8.68 | 6.22 | 5.10 | 5.16 | 4.38 | 4.22 | 4.27 | | |
| | 3 | 4.19 | 4.22 | 7.45 | 8.07 | 6.84 | 6.86 | 4.79 | 3.87 | 3.60 | 4.92 | | |
| | 4 | 4.31 | 4.45 | 7.34 | 6.75 | 7.55 | 6.42 | 5.75 | 4.56 | 4.30 | 3.92 | | |
| | 5 | 4.30 | 4.71 | 7.44 | 7.08 | 6.30 | 6.50 | 4.50 | 4.36 | 4.83 | 4.50 | | |
| | 6 | 4.45 | 4.12 | 7.14 | 5.68 | 6.07 | 5.96 | 5.20 | 4.83 | 4.50 | 4.71 | | |
| 2 a.m. meal | 1 | 5.03 | 4.99 | 9.10 | 10.03 | 9.20 | 8.31 | 7.92 | 4.86 | 4.63 | 3.52 | 4.17 | |
| | 2 | 4.51 | 4.50 | 8.74 | 8.80 | 7.10 | 8.20 | 7.42 | 5.79 | 4.85 | 4.94 | 2.07 | |
| | 3 | 4.87 | 5.12 | 6.32 | 9.48 | 9.88 | 6.28 | 5.58 | 5.26 | 4.10 | 4.25 | 4.55 | |
| | 4 | 4.55 | 4.44 | 5.56 | 6.39 | 7.85 | 7.40 | 6.23 | 4.59 | 4.31 | 3.96 | 4.05 | |
| | 5 | 4.79 | 4.82 | 9.29 | 8.99 | 8.15 | 5.71 | 5.24 | 4.95 | 5.06 | 5.24 | 4.74 | |
| | 6 | 4.33 | 4.48 | 8.06 | 8.49 | 4.50 | 7.15 | 5.91 | 4.27 | 4.78 | -1.00 | 5.72 | |
| 10 p.m. meal | 1 | 4.80 | 4.72 | 9.53 | 10.02 | 10.25 | 9.29 | 5.45 | 4.82 | 4.09 | 3.52 | 3.92 | |
| | 2 | 4.33 | 4.10 | 4.36 | 6.92 | 9.06 | 8.11 | 5.89 | 5.91 | 5.65 | 4.58 | 3.79 | |
| | 3 | 4.42 | 4.07 | 5.48 | 9.05 | 8.04 | 7.19 | 4.87 | 5.40 | 4.35 | 4.51 | 4.66 | |
| | 4 | 4.38 | 4.54 | 8.86 | 10.01 | 10.47 | 9.91 | 6.11 | 4.37 | 3.38 | 4.02 | 3.84 | |
| | 5 | 5.06 | 5.04 | 8.86 | 9.97 | 8.45 | 6.58 | 4.74 | 4.28 | 4.04 | 4.34 | 4.35 | |
| | 6 | 4.43 | 4.75 | 6.95 | 6.64 | 7.72 | 7.03 | 6.38 | 5.17 | 4.71 | 5.14 | 5.19 | |

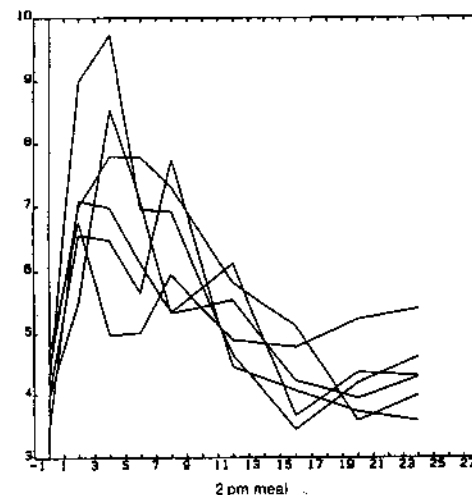
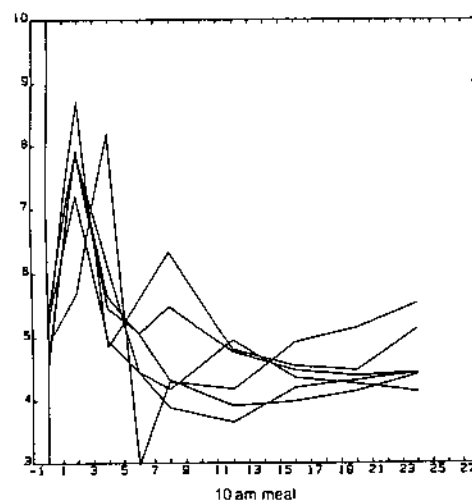


Fig. 2.3. Blood glucose levels after a test meal.

NIST/ITL STRD
Dataset Name: AtmwtAg (AtmwtAg.dat)

File Format: ASCII
Certified Values (lines 41 to 47)
Data (lines 61 to 108)

Procedure: Analysis of Variance

Reference: Powell, L.J., Murphy, T.J. and Gramlich, J.W. (1982).
"The Absolute Isotopic Abundance & Atomic Weight
of a Reference Sample of Silver".
NBS Journal of Research, 87, pp. 9-19.

Data: 1 Factor

2 Treatments
24 Replicates/Cell
48 Observations
7 Constant Leading Digits
Average Level of Difficulty
Observed Data

Model: 3 Parameters (mu, tau_1, tau_2)
 $y_{(ij)} = \mu + \tau_{1i} + \epsilon_{j(i)}$

Certified Values:

| Source of Variation | df | Sums of Squares | Mean Squares | F Statistic |
|---------------------|----|-----------------|--------------|-------------|
|---------------------|----|-----------------|--------------|-------------|

Between Instrument 1 3.63834187500000E-09 3.63834187500000E-09 1.59467335677930E+01
Within Instrument 46 1.04951729166667E-08 2.28155932971014E-10

Certified R-Squared 2.57426544538321E-01

Certified Residual

Standard Deviation 1.51048314446410E-05

Data: Instrument

| | |
|---|-------------|
| 1 | 107.8681568 |
| 1 | 107.8681455 |
| 2 | 107.8681450 |
| 2 | 107.8681368 |