

## **List of corrections for Grafen & Hails, *Modern Statistics for the Life Sciences*, first edition**

Note that all errors listed, except for those in blue, have been corrected in the latest reprint of the book  
(3<sup>rd</sup> imprint, May 2004)

### Contents

1. Page vii, title for chapter 9. Last word in title should read 'assumptions' not 'asumptions'.

### Chapter 2

1. Page 35, 3<sup>rd</sup> paragraph, line 3. The F ratio should read 111.45 not 11.45.
2. Page 41, second paragraph, line 1. The (see Box 2.2) should be deleted, as the influential point is no longer flagged up in the generic output.
3. Page 41, second paragraph, line 2 should read 'seed weight 290' rather than 'seed weight 90'.

### Chapter 4

1. Pages 56 and 57. The correct variable name in the school children's maths should be HGT, not HGHT.
2. Page 62, Box 4.4(b). The error SS should be 2761.1 not 27601.1.

### Chapter 6

1. Page 96 The correct variable name in the school children's maths should be HGT, not HGHT (in the 6<sup>th</sup> word equation).
2. Page 98, Box 6.1. The coefficient for TREATMT 3 should be positive.
3. Page 104, Box 6.5. The coefficient for DAY 5 should be positive.
4. Page 105, Figure 6.5. Make the label on the Y axis BAC2 and the x axis DAY2.

### Chapter 7

1. Figure 7.1 should have a 4 in each box for V1 and V2 (instead of an 8).
2. p118 In the equation for YIELD, BLOCK, SOWRATE and VARIETY should be moved to be over the first column in the bracket, not the second.
3. P120, first paragraph. Lines 4 and 6. 'Type I' should read 'Type II' in both instances.
4. p134, Summary. First bullet, line 1. Change 'they allowing' to 'they allow'.
5. P134, Summary. First bullet, line 2. Change 'it provides' to 'they provide'.

### Chapter 11

1. Page 212, Box 11.1(a). It should say: YEARS and WEIGHT are continuous not YEARS and WEIGHT are categorical.
2. Page 230, Box 11.10(c). The Adj SS for TRTMT should be 5.7593 not 5.7573.

### Chapter 12

1. Page 236. The first equation should read  
Expected mean square for starling =  $5\sigma_s^2 + \sigma_E^2$

## Chapter 13

1. Page 274 in the  $\chi^2_{Treatment\ df}$  equation, the first numerator should be Treatment mean square not Treatment mean square.
2. Page 277, last line of the first paragraph. The fourth word should be stored not stated.

### Answers to Exercises

1. Page 289. Figure 15.3. The x axis titles should read 'Grand mean when  $\sigma = 2$ ', 'Grand mean when  $\sigma = 4$ ', 'Grand mean when  $\sigma = 8$ ' and 'Grand mean when  $\sigma = 16$ '.
2. Page 289. The answer to (1) should read

The 95% confidence interval for the slope of LLONGVTY on LEGGRATE is

$$\begin{aligned} & 0.2813 \pm t_{23} * 0.1165 \\ & = 0.2813 \pm 0.2410 \\ & = (0.0403, 0.5223) \end{aligned}$$

3. Page 290. The answer to (2) should read

The 95% confidence interval for the slope of LLONGVTY on LEGGRATE when size has been eliminated is

$$\begin{aligned} & -0.2899 \pm t_{22} * 0.0996 \\ & = -0.2899 \pm 0.2066 \\ & = (-0.4955, -0.0833) \end{aligned}$$

4. Page 291, paragraph at the bottom of the page. This is the answer to question (3) not (4).
5. Page 291, line 2. Delete 'alone'.
6. Page 291, line 3. Delete 'relatively little' and replace with 'no'.
7. Page 300, Box 15.12. The correct variable name is TRMNT not TRTMNT.
8. Page 301, Boxes 15.13, 15.14 and 15.15. The correct variable name is TRMNT not TRTMNT.
9. Page 302, Boxes 15.16 and 15.17. The correct variable name is TRMNT not TRTMNT.

### Corrections to Datasets

1. Excel dataset for chapter 11, separate sheets. One variable is called COULD8AM when it should be CLOUD8AM

### Corrections for the Minitab Supplement

1. Chapter 4, page 10: Minitab commands for Figure 4.10: The first command line has an & which shouldn't be there.