# Course Notes for Statistics/Forestry/Horticulture 571

# Errata for July 30, 1997 Edition

Updated August 2002

**p. 18, line 5 below seedling displays** Should say "...seedlings seem to be ...".

**p. 18, line 6 below seedling displays** Delete one "to".

**p. 27, 5th line below two rows of numbers** Should say "then", not "than".

**p. 30, line 5** Should be "effect", not "affect".

**p. 31, last line of footnote 2** Should be "give", not "gives".

**p. 32, first line in Sec 2.7.1** Should be "known", not "know".

**p. 33, last box plot** Label should be "Drug E", not "Drug D".

**p. 45, 6th line from bottom** Delete the "." in "For.example".

**p. 49, Figures** Top 3 figures should be labeled (a), (b), (c) respectively; next two (d) and (e).

**p. 51, 8th line below eqn for $P(W)$** Delete the parenthetical expression beginning "in words:".

**p. 55, line 9 below box** Delete extra "elementary".

**p. 57, line 3 after box** Should be "necessarily", not "necessary".

**p. 71, problem 17** Should be "Section 3.7", not "Section 2.7".

**p. 73, line 10 below chapter title** Should be "Other", not "Others".

**p. 81, line 5** Should say "...the cake mix be homogeneous.".

**p. 87, line 9** Should be "suppose", not "Suppose".

**p. 91, line 5** Should be "conditions", not "condition".

**p. 93, Top figure** Curve with "X" on axis is figure (a), with "Z" on axis is figure (b).

**p. 94, 4 lines above box** Should be "$P(X \leq 6.2)$", not "$P(X \leq 1.2)$".

**p. 99, line 10** Should say "$X \sim N(7.1, 0.6^2)$" (i.e. variance should be $0.6^2$, not 0.6.)

**p. 100, line 3 of problem 6.** Should be "at", not "oat".

**p. 102,** Problem 18 should follow the next chapter.

**p. 107, line above box** Delete one "and".

**p. 111, in box** Add after "$np(1 - p)$.", "In symbols, $X$ can be approximated by $X_{NA}$, where $X_{NA} \sim N(np, np(1 - p))$."

**p. 115, last line in box** Replace "as before" with "see box on p. 111".

**p. 117, last line of para 2** Change "different" to "to be different".

**p. 122, line 15 in Sec. 5.6** Delete one "the".

**p. 126, line 4 from bottom** Should say "...to generate in a simulation study."

**p. 130, Problem 15** Exchange "0" and "1" so "$P(X = 1) = p$ and $P(X = 0) = 1 - p$.".

**p. 132, line 3 of problem 23.** Should be "larger", not "large".

**p. 138, line 16** Should say "...that the observed value $\bar{x}$ was 135.5 ."

**p. 142, line 5 above figure** Delete one "whereas".

**p. 146, line 8 in Sec. 6.4.1** Should be "inoculation", not "planting".

**p. 148, in equation, 4 lines above footnote** The middle term should read "$2P(X_{NA} \geq 82.5|H_0)$".

**p. 150, line 4 from bottom** Should say "...and let $S^2$ be the ...".

**p. 151, 2nd displayed equation** Should say "p-value $\doteq 2P(Z \geq 2.61) = 2 \times 0.0045 = 0.0090$". Next line: change "moderate" to "strong".

**p. 155, line 2 in Summary** Place ")" at end of line.

**p. 155, line 9 in Summary** Should be "?", not "." after "(the alternative hypothesis)".

**p. 155, line 10 in Summary** Should be "exist", not "exists".

**p. 157, line 6 of problem 3.** Should say "...less than 22 ounces.".

**p. 161, line 4 in Sec. 7.1.1** Should say "...observed $\bar{x} = 135.5$."

**p. 162, line 25** Should say "...and $\bar{x} = 135.5$."

**p. 162, line 26** Interval should be "$131.58 \leq \mu \leq 139.42$."

**p. 162, line 29** Initial interval should be "[131.58,139.42]" and second interval should be "$\mu \in 135.5 \pm 3.92$".

**p. 162, line 30** Interval Should be "$135.5 \pm 3.92$".

**p. 164, line 1 below box** Should say "...and $\bar{x} = 135.5$."

**p. 164, line 4 below box** Should be "$135.5 - 1.282\frac{8}{\sqrt{16}} \leq \mu \leq 135.5 + 1.282\frac{8}{\sqrt{16}}$".

**p. 164, line 6 below box** Should be "$132.94 \leq \mu \leq 138.06$".

**p. 173, line 2** Should be "intervals", not "interval".

**p. 183, 3rd line after figures** Should say "2 degrees", not "2 degree".

**p. 191, last line** Should be "then", not "than".

**p. 192, line 16** Delete one "more".

**p. 195, line 24** Should be "than", not "that".

**p. 216, 2nd line after equation (9.9)** Should be "2.326", not "2.236".

**p. 220, last line** Should say "if $\hat{p}$ is below $p_L$ or above $p_U$". (Not "above $p_L$".)

**p. 223, 1st line after (unboxed) displayed equation** Insert "the" before "experiment".

**p. 223, 2nd line in Sec. 9.4** Delete "a" before "hypothesized" and change 2nd hypothesis statement to "$H_A : \mu \neq 30$."

**p. 223, 7th line in Sec. 9.4** Change 2nd hypothesis statement to "$H_A : \mu \neq 30$."

**p. 224, line 8** Should say "...is useful in interpreting ...".

**p. 226, 2nd line in problem 13** Delete "with a random sample of size 12".

**p. 228, Problem 25 line 3** Should say "...then reject $H_0$."

**p. 237, in equation with "$t = \ldots$"** Change "-3.09" to "-3.08". (-3.08 is the answer using the given summary statistics; with unrounded summary statistics, the correct answer is -3.09).

**p. 237, Interval in box** Add a "bar" to the second $x_2$" and increase font size of "$s_p$".

**p. 240, in formula for "adf" near bottom** In denominator, replace "$vr_1^2$" and "$vr_2^2$" by "$(vr_1)^2$" and "$(vr_2)^2$" respectively.

**p. 243, lines 5, 6** Modify sentence beginning with "The only ..." by "The only assumptions we need to make are ...".

**p. 243, line 5 from bottom (excluding footnote)** Should be "38 degrees of freedom", not "32 degrees of freedom".

**p. 247, in equation with "p-value"** Should be "0.0716", not "0.0714".

**p. 250, 6th line (of main text) from the bottom** Delete "in this chapter".

**p. 254, line 3 from bottom** Should be "it is", not "is it".

**p. 260, Problem 15 line 7** Should be "$\bar{X}_2 - \bar{X}_1$", not "$\bar{X}_1 - \bar{X}_2$".

**p. 264, first line below 2nd bullet** Should be "we", not "We".

**p. 270, ANOVA Table** SSTot should be 390.8.

**p. 281, line 5 in Sec. 11.6** Should be "libitum", not "libitim".

**p. 282, line 6 below plot** Should be "$F = 0.16$", not "$F = 0.19$".

**p. 287, line 10 in Summary** Should be "Kruskal-Wallis", not "Kruskal-Wallace".

**p. 293, lines 13-15** Modify the sentence beginning with "It is possible ..." by "It is possible that three varieties have the same mean and one is different, that one group of two varieties has the same mean which is different from the common mean of the other group of two varieties, or that all four variety means are different from each other."

**p. 293, line 16** Should say "relationships among the variety means".

**p. 294, ANOVA Table** SSTot should be 390.8.

**p. 303, in 2nd null hypothesis** Should be $H_{0_2} : \mu_1 - \mu_2 = 0$.

**p. 306, Table of summary statistics** $n_i$ values need relabeling (there are two $n_2$s).

**p. 309, line 1 below plot** Should be "sum", not "sums".

**p. 312, line 4 after equation (12.21)** Delete one "is".

**p. 313, line 9 after Protected Tests** Should say "...each contrast at the same ...".

**p. 314, line 4** delete "then".

**p. 314, line 10 from bottom** Should say "$0.06 < \text{p-value}_3 < 0.15$".

**p. 316, in equation (12.24)** The "$\alpha/2$" term should appear as part of the subscript.

**p. 317, line 2 after underlines** Should say "...less than 9.54.".

**p. 318, line 6** Insert "a" before "significant".

**p. 318, line 9** Insert "whereas" before "Diets"; insert "so" before "that".

**p. 322, next to last line before Section 12.4** The Tukey-Kramer yardstick should read "$Q_{k,N-k,\alpha} \times \sqrt{\frac{s_p^2}{2}(\frac{1}{n_i} + \frac{1}{n_j})}$ ".

**p. 323, line 9** Delete one "to".

**p. 343, Table** First entry should be "12.09", not "120.9".

**p. 369, 5 lines before section 14.5.2** Should be "$= s_e/\sqrt{\sum(x_i - \bar{x})^2}$ ".

**p. 372, line 7 from bottom** Delete one "then".

**p. 373, line 23** Should be "an effective", not "a effective".

**p. 374, top line within box** Should be "the Predicted", not "the a Predicted".

**p. 374, line 4 from bottom** Should say "... wider than the interval ...".

**p. 397, top equation** Change "16" to "18".

**p. 411, Table D** Tables are missing line for prob=0.025.

**p. 424, missing reference:** Little, R. J. and Rubin, D. B. (1987). *Statistical Analysis with Missing Data*, Wiley (New York).