STA 431s13 Quiz 9

- 1. (2 points) How many covariance structure equations are there in the Farm Manager Data? Your answer is a single number.
- 2. (2 points) Your list file for the Farm Manager Data has a test of whether your model fits the data adequately.
 - (a) Give the value of the test statistic. It is a number on your printout.

26.9046

(b) Give the degrees of freedom. It is a number on your printout.

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(c) Give the p-value of the test. It is a number (or range of numbers) on your printout.

0.2149

(d) Based on the $\alpha=0.05$ significance level, is this an acceptable model for the data? Answer Yes or No

Yes

- 3. (3 points) You did a Wald chi-squared test of all the regression coefficients at once.
 - (a) Give the value of the test statistic. It is a number on your printout.

62.62778

(b) Give the degrees of freedom. It is a number on your printout.

4

(c) Give the p-value of the test. It is a number (or range of numbers) on your printout.

PL0.0001

(d) Do you reject H_0 at $\alpha=0.05$? Answer Yes or No.

Yes.

- 4. (3 points) Controlling for knowledge, profit-loss orientation and formal education, is there evidence that job satisfaction is related to job performance?
 - (a) Based on the $\alpha = 0.05$ significance level, Answer the question Yes or No.

No

(b) Give the value of the test statistic. It is a number on your printout.

A (07 Z) = 0.9838

(c) Give the maximum likelihood estimate of the regression coefficient relating true job satisfaction to true job performance. It is a number on your printout.

0.0498

(d) If you found evidence of a relationship between job satisfaction and performance controlling for the other variables (and only if you did), briefly describe the connection in plain, non-statistical language.

Ho is not rejected. No

Please attach your log file and your list file to the quiz paper. Make sure your name is written on both printouts.