

Do not write your name on the assignment. Write your name only on the back of this sheet of paper and staple your answers on the front of this sheet of paper. Your assignment will be typed, except graphs can be drawn by hand and mathematical equations can be done by hand. The spreadsheets will be turned in via an attachment to an e-mail sent to wcsaplar@bethanywv.edu. The only place your name should appear on the electronic file is on a page with nothing else on it. Failure to follow these directions will cost you 1 point on the assignment.

I changed the due date until Friday because of the Economics club trip. Also, because of that trip, we are covering 11/12's class on 11/15, 11/15's class on 11/17, and on 11/17, you will get the test back with an answer key.

You may want to watch the files "mcauley1.scm" through "mcauley8.scm" using "scplayer.exe". They can all be found in the folder "350 cam" on CD you got at the beginning of the semester.

All of these questions refer to the spreadsheet "HW" on the Excel file "[11-12.xls](#)" or to how my way of doing it differs from Dr. Townsend's way of doing it.

- 1) (20 points) Dr. Townsend's centered moving average, in the second video, is not quite centered. Why isn't it? What could he do to correct it? Specify how he could calculate the centered moving average for July, 1991 for his data and tell me the number he should have..
- 2) (10 points) On the spreadsheet, calculate the centered moving average for all quarters which you can calculate it.
- 3) (10 points) On the spreadsheet, calculate the Preliminary Seasonal Indicator (PSI) for all quarters which you can calculate it.
- 4) (10 points) On the spreadsheet, calculate the Adjusted Seasonal Indicator (ASI) for all quarters which you can calculate it.
- 5) (10 points) On the spreadsheet, calculate the Revised Seasonal Factor (RSF) for all quarters which you can calculate it.
- 6) (15 points) On the spreadsheet, calculate the Total Seasonal Factor (TSF) for all quarters which you can calculate.
- 7) (15 points) On the spreadsheet, run a regression of sales as a function of time in the manner we described before Exam #2.
- 8) (10 points) When we calculated RSF, we subtracted 400% and then divided by 4, but Dr. Townsend subtracted 1200% and then divided by 12. What would you do if we had weekly data? Explain your logic.