ANSC/TPSS Assignment 6
Split Split Plot

1. Analyze the following experiment using SAS. Make sure correct F tests are used.

2. Show how the experiment would be analyzed by hand or in Excel by:
        a. showing the sources of variation and df for the ANOVA
        b. showing the subtables to be used to calculate the SS for each source
        c. showing the numbers which would go into each SS calculation (partial lists are fine)

Sugar beet virus control experiment

Sugar Beet Root Yields (tons/acre)

Main Plant	Sub Spray	Sub-Sub Harvest	Block	1	2	3	4
1	1	1		25.7	25.4	23.8	22.0
1	1	2		31.8	29.5	28.7	26.4
1	1	3		34.6	37.2	29.1	23.7
1	2	1		27.7	30.3	30.2	33.2
1	2	2		38.0	40.6	34.6	31.0
1	2	3		42.1	43.6	44.6	42.7
2	1	1		28.9	24.7	27.8	23.4
2	1	2		37.5	31.5	31.0	27.8
2	1	3		38.4	32.5	31.2	29.8
2	2	1		38.0	31.0	29.5	30.7
2	2	2		36.9	31.9	31.5	35.9
2	2	3		44.2	41.6	38.9	37.6
3	1	1		23.4	24.2	21.2	20.9
3	1	2		25.3	27.7	23.7	24.3
3	1	3		29.8	29.9	24.3	23.8
3	2	1		20.8	23.0	25.2	23.1
3	2	2		29.0	32.0	26.5	31.2
3	2	3		36.6	37.8	34.8	40.2