

Chutter Ranch Poultry Manure Application Project

Treatments:

- 1 C - Control
- 2 **SPM 100** - Spring Poultry Manure application @ 100 kg Total N/ha
- 3 **SPM 200** - Spring Poultry Manure application @ 200 kg Total N/ha
- 4 **SPM 100 + 50** - Spring Poultry Manure application @ 100 kg Total N/ha + 50 kg N/ha fertilizer
- 5 **SCM + 75** - Spring Cattle Manure application @ 2.5 cm depth (1 inch) + 75 kg N/ha fertilizer
- 6 **SCF** - Spring Chemical fertilizer only applied @ 75 kg N/ha & 50 kg P₂O₅/ha
- 7 **SCF + micro** - Spring Chemical fertilizer only applied with micronutrients (75 kg N/ha, 50 kg P₂O₅/ha, 50 kg K₂O/ha, 10 kg S/ha, plus micronutrients (with Boron))
- 8 **FPM 200** - Fall Poultry Manure @ 200 kg Total N/ha

Plot size and replication:

Total plot area = 40m x 20 m = 800 m²

Each plot = 5 meters x 5 meters

Each treatment replicated 4 times

Rep #4	Treatment # 6 SCF	Treatment # 4 SPM 100 + 50	Treatment # 7 SCF + micro	Treatment # 5 SCM + 75	Treatment # 8 FPM 200	Treatment # 1 Control	Treatment # 2 SPM 100	Treatment # 3 SPM 200
Rep #3	Treatment # 8 FPM 200	Treatment # 5 SCM + 75	Treatment # 1 Control	Treatment # 2 SPM 100	Treatment # 7 SCF + micro	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 6 SCF
Rep #2	Treatment # 2 SPM 100	Treatment # 6 SCF	Treatment # 7 SCF + micro	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 8 FPM 200	Treatment # 1 Control	Treatment # 5 SCM + 75
Rep #1	Treatment # 2 SPM 100	Treatment # 1 Control	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 5 SCM + 75	Treatment # 6 SCF	Treatment # 7 SCF + micro	Treatment # 8 FPM 200

Klaas

Below is the plot plan for Chutter site as of September 1997 with revision in Rep #1 for locations of treatment #1 and #2.

Rep #4	Treatment # 6 SCF	Treatment # 4 SPM 100 + 50	Treatment # 7 SCF + micro	Treatment # 5 SCM + 75	Treatment # 8 FPM 200	Treatment # 1 Control	Treatment # 2 SPM 100	Treatment # 3 SPM 200
Rep #3	Treatment # 8 FPM 200	Treatment # 5 SCM + 75	Treatment # 1 Control	Treatment # 2 SPM 100	Treatment # 7 SCF + micro	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 6 SCF
Rep #2	Treatment # 2 SPM 100	Treatment # 6 SCF	Treatment # 7 SCF + micro	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 8 FPM 200	Treatment # 1 Control	Treatment # 5 SCM + 75
Rep #1	Treatment # 2 SPM 100	Treatment # 1 Control	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 5 SCM + 75	Treatment # 6 SCF	Treatment # 7 SCF + micro	Treatment # 8 FPM 200

As mentioned on the phone, I made an error when applying the fall poultry manure treatments (FPM 200). The errors are as follows:

Rep #1 – no error was made

Rep #2 – FPM 200 was applied to SCM + 75. After realizing error, treatment was then applied to correct plot.

Rep #3 - FPM 200 was applied to SPM 200. After realizing error, treatment was then applied to correct plot.

Rep #4 - FPM 200 was applied to SCF or treatment #6. Did not apply FPM 200 to this rep – figured we could use the treatment #8 plot (since no treatments applied during 1997) as plot to apply SCF in the spring.

Chutter Ranch 1998 - Revised Plot Plan for Long-term Grass Plots

Irrigation Pivot Trench

Rep #4	Treatment # 8 FPM 200	Treatment # 4 SPM 100 + 50	Treatment # 7 SCF + micro	Treatment # 5 SCM + 75	Treatment # 6 SCF	Treatment # 1 Control	Treatment # 2 SPM 100	Treatment # 3 SPM 200
Rep #3	Treatment # 8 FPM 200	Treatment # 5 SCM + 75	Treatment # 1 Control	Treatment # 2 SPM 100	Treatment # 7 SCF + micro	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 6 SCF
Rep #2	Treatment # 2 SPM 100	Treatment # 6 SCF	Treatment # 7 SCF + micro	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 8 FPM 200	Treatment # 1 Control	Treatment # 5 SCM + 75
Rep #1	Treatment # 2 SPM 100	Treatment # 1 Control	Treatment # 3 SPM 200	Treatment # 4 SPM 100 + 50	Treatment # 5 SCM + 75	Treatment # 6 SCF	Treatment # 7 SCF + micro	Treatment # 8 FPM 200