

## 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 P<sub>2</sub>O<sub>5</sub>/ha
- 7 **SCF + micro** - Spring Chemical fertilizer only applied with micronutrients (75 kg N/ha, 50 kg P<sub>2</sub>O<sub>5</sub>/ha, 50 kg K<sub>2</sub>O/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 m<sup>2</sup>

Each plot = 5 meters x 5 meters

Each treatment replicated 4 times

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

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.

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

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

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