

BlackEarthProducts

Biochar and condensate informal trial

Trial to replicate and refine results from prior trial data using poultry litter biochar and poultry litter liquid pyrolysis condensate produced by Black Earth Products using continuous flow pyrolysis at 550 degrees Celsius.

Biochar fully combined into seed mix, condensate applied once prior to germination.

Condensate

Total organic carbon, g/Lt 77.4

Total nitrogen, g/Lt 15.39

Acetic acid, g/Lt 10.06

5000 Lt/ha = 8ml in pot

Biochar

Total Carbon - 63.7%

Fixed Carbon - 61.2%

Nitrogen (N) - 2.8%

Phosphate (P) - 2.6%

Potassium (K) - 3.9%

Calcium (Ca) - 5.9%

Sulphur (S) - 0.59%

5 t/ha = 8g in pot

Oats, 140mm pot, 1000ml seed mix, day 79, Winter, Sub Tropics
barry.batchelor@biochar.net

Note: Pyrolysis condensates are complex chemicals and may contain toxic elements



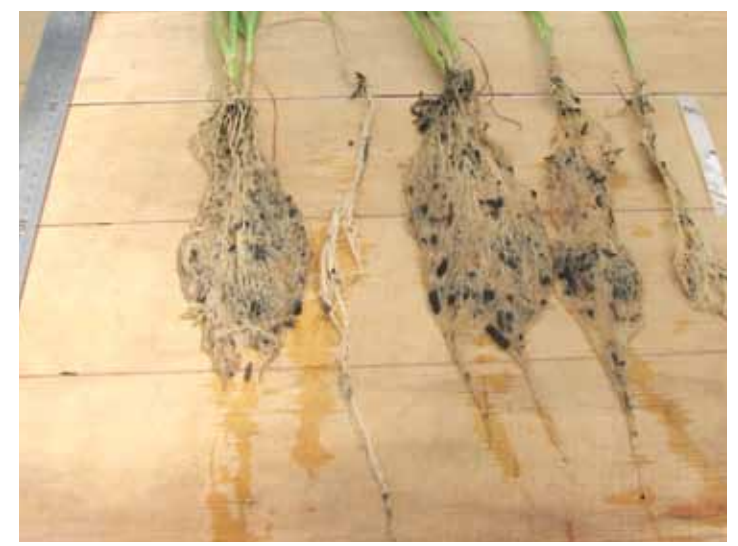
1. Control



4. Biochar 10 t/ha



5. Biochar 20 t/ha





2. Biochar 5 t/ha



7. Condensate 2.5k Lt/ha

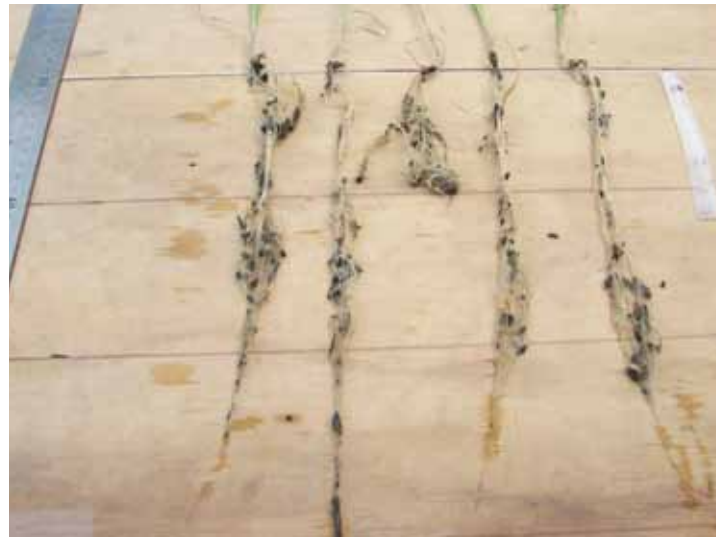


8. Biochar 5 t/ha - Condensate 2.5k Lt/ha

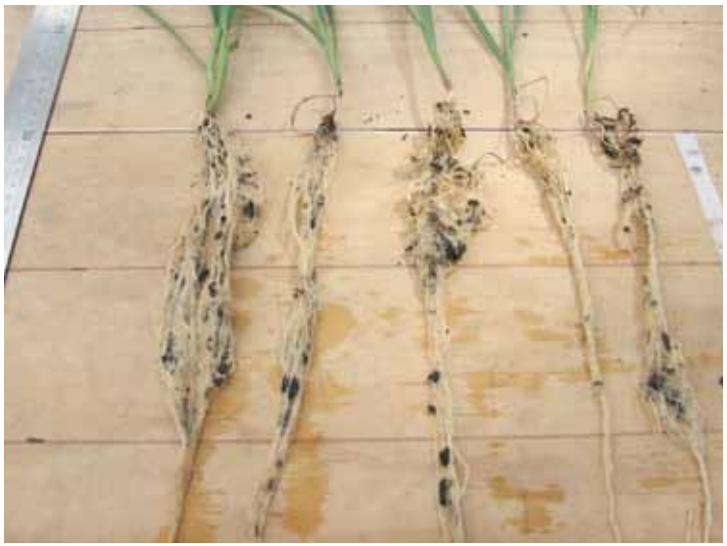




2. Biochar 5 t/ha

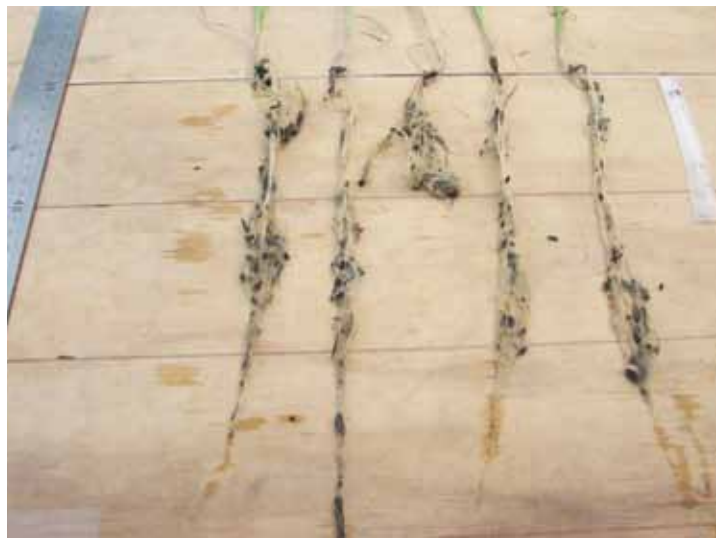


9. Condensate 5k Lt/ha



10. Biochar 5 t/ha - Condensate 5k Lt/ha





2. Biochar 5 t/ha



11. Condensate 20k Lt/ha



12. Biochar 5 t/ha - Condensate 20k Lt/ha



8. Biochar 5 t/ha - Condensate 2.5k Lt/ha



6. Biochar 20 t/ha - Condensate 40k Lt/ha



3. Biochar 40 t/ha - Condensate 40k Lt/ha