

**FINAL REPORT**

**Project CSO1C: Soil damage in relation to tillage and traffic at various moisture contents and relations between deformations structure and permeability of cotton soils.**

**Project staff:**

Dr Mac Kirby, Principal Research Scientist (30% time allocation)  
Mr Bruce Blunden, Experimental Scientist (100% time allocation)  
Mr Colin McLachlan, Technical Officer (50% time allocation)

**This project had objectives of:**

- 1 studying the risk of damaging soil, and by how much, by tillage and traffic at various moisture contents;
- 2 testing further the "critical moisture" concept developed under a previous project;
- 3 studying the conditions under which deformations lead to good or bad structure/permeability in cotton soils.

To address these objectives, we studied soil behaviour both in the field and in the laboratory. Much of the work has been published; a comprehensive reference list is given at the end of papers arising directly from the work and papers relevant to but not arising directly from this project. Here a summary of the findings is given.