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Table A1. Changed parameter values of SoilN2 and Residue2 modules

Parameter	Value	Explanation
Rdhum (potential decomposition rate humus pool)	0.00025 day^{-1}	Snow *et al*. (1999)
Rdbiom (potential decomposition rate biomass pool)	0.0135 day^{-1}	Changed in proportion to change in Rdhum
Wfmin (water factor mineralisation) and *Wfnit* (water factor nitrification)	5% at lower limit and 100% at 30% of plant available water	Asseng *et al*. (1998)
Pot_decomp_rate (potential decomposition rate of wheat surface residue)	0.02 day^{-1}	Decreased from 0.1 day^{-1} proposed by Probert *et al*. (1998*a*) based on Verburg *et al*. (2001) and matching similar decreases for different materials by Asseng *et al*. (1998) and Snow *et al*. (1999)

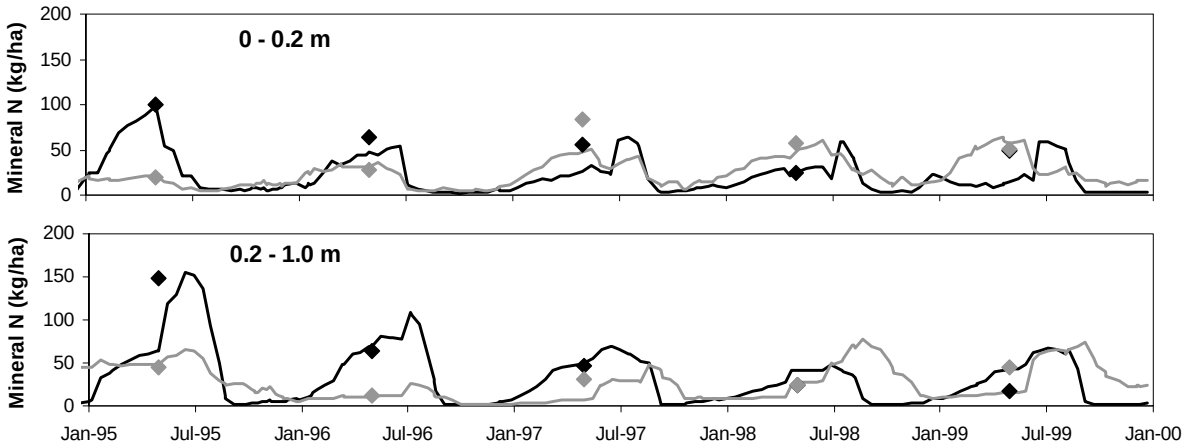

Fig. A1. Observed average (symbols) and predicted (lines) mineral N in surface (0–0.2 m) and subsurface (0.2–1.0 m) under continuous cropping (black) and continuous lucerne (grey).

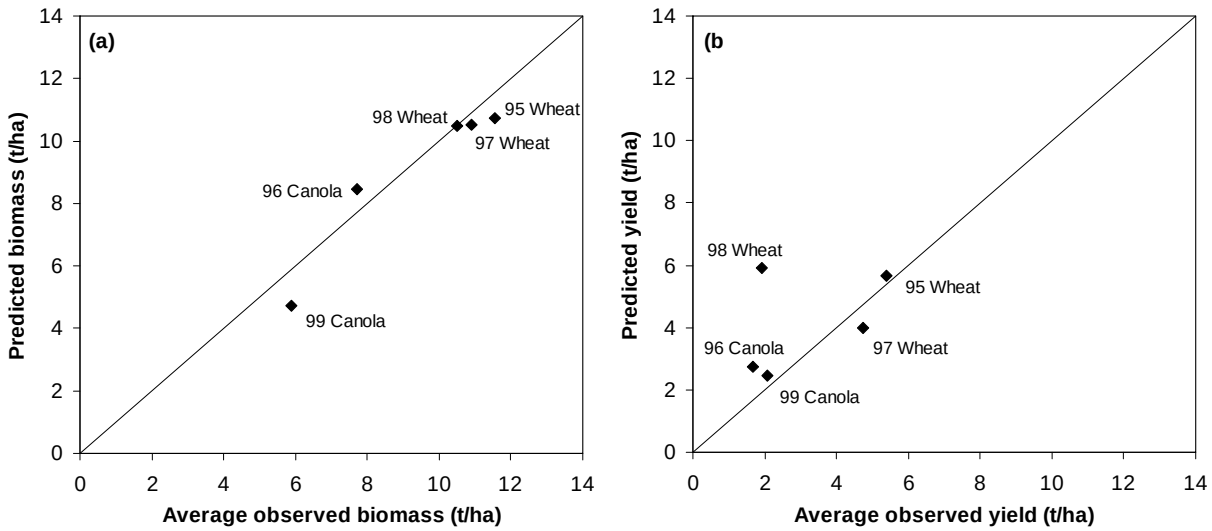

Fig. A2. Comparison between observed and predicted crop biomass and crop yield; biomass measurements were made at mid-anthesis (wheat) or 50% flowering (canola).

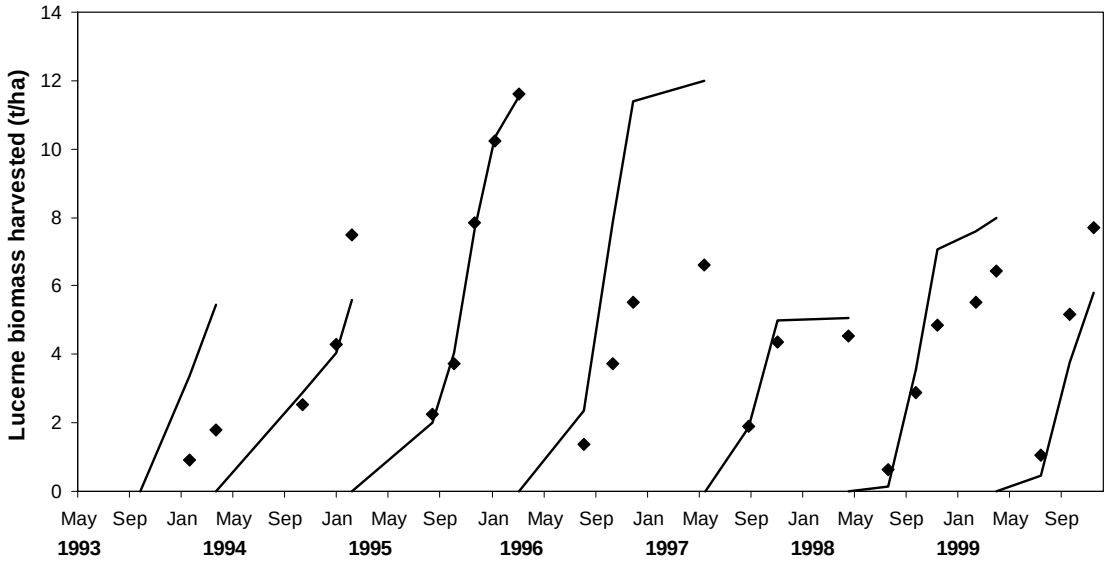

Fig. A3. Observed (symbols) and predicted (lines) lucerne biomass harvested (cumulative winter through to autumn).