

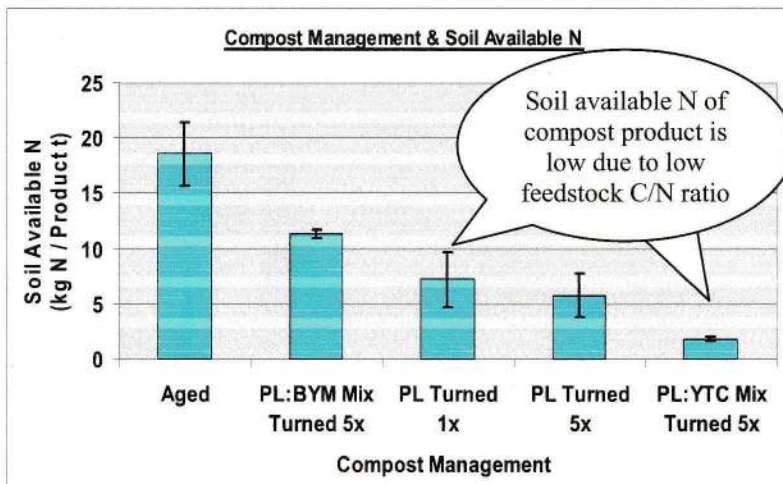
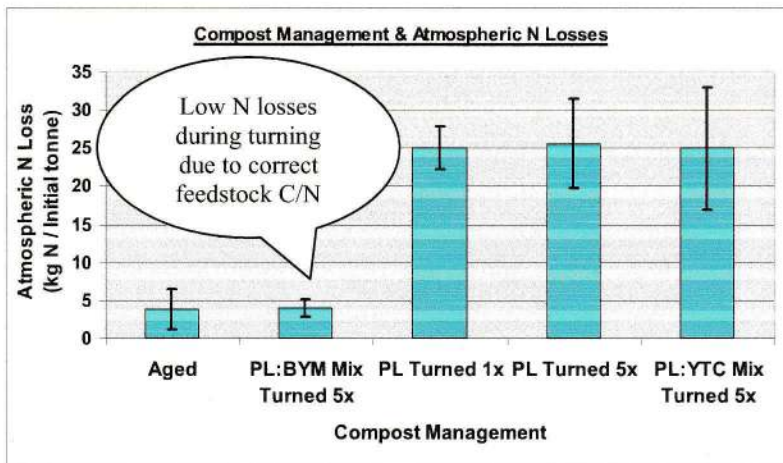
## C/N Ratio

### Typical Carbon and Nitrogen Analyses of Some Compost Feedstocks

	Fresh Poultry Litter (PL)	Municipal Yard Trimmings Compost (YTC)	Barn Yard Horse Manure (BYM)	Straw (Wheat)	Wood Waste
Total % C	32	28	38	56	>20
Total % N	3.7	1.6	0.9	0.4	<0.1
C/N Ratio	9	17	42	140	>200
% Moisture	25-33*	50	60	ND**	ND

\*Broiler Litter = 25% moisture, Turkey litter = 33% moisture

\*\*ND - indicates no data



### C/N Ratio

The two graphs show the effects of C/N ratio on N losses during composting. Poultry litter has a low C/N ratio and thus experienced very high gaseous N losses when composted on its own (upper graph). When PL was mixed with a high C material, namely barnyard horse manure (BYM) (60:40 PL:BYM) the initial C/N ratio was increased and N losses during composting were decreased. This resulted in higher concentrations of soil available N in the finished PL:BYM compost as compared to the PL alone compost (lower graph).