RESEARCH (65% of Time): Research interests include general aspects of soil microbiology-biochemistry-fertility, particularly how soil microbial processes influence plant growth and environmental contamination. Of particular interest are nodulation and nitrogen fixation of legumes, N mineralization and transformations in green manures, biosolids and manure amended soils, N cycling in agricultural and natural ecosystems, reclamation of disturbed lands, and microbial manipulation of contaminated soils. Current projects include mineralization of N from manure and biosolids amended soils, fecal coliform survival in biosolids amended soils, 15N movement in pecan trees, degradation of pecan wood chips, and phytoremediation of uranium amended soils. I have worked and published with scientists from the Texas A & M Research and Extension Campus at El Paso and University of New Mexico. Research has had a direct impact on the mining industry and the pecan industry.