



**Management of Biological Nitrogen Fixation for
the Development of More Productive and
Sustainable Agricultural Systems: Extended
versions of papers presented ... (Developments in
Plant and Soil Sciences)**

J.K. Ladha, M.B. Peoples

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Table 1. Global allocation of arable land between different commodities Globally, cereal cropping dominates cultivated land Commodities' Proportion of land area use (around 50% of total area, Table I). The remain (%) ing arable land is used for production of oilseed, fibre, or food and cash crops. In addition, vast areas are Cereals maintained under temporary or permanent pasture for Wheat 16 forage production (2-3 fold greater than the total area Rice 10 under cultivation and permanent crop; Table 1, Fig. Maize 9 O. All cultivated crops, except for legumes (pulses All other cereals 13 and legume oilseeds) require the soil to provide rel Total 48 atively large amounts of nitrogen (N). It is necessary for the three most important cereals, wheat (*Triticum Legumes aestivum*), rice (*Oryza sativa*) and maize (*Zea mays*), Legume pulses 5 1 to take up 20 to 40 kg soil N ha- over a period of 3 Legume oilseeds 6 to 5 months to satisfy the N requirements of the seed and supporting vegetative structure for each tonne of Total II grain produced (e. g. Fig. 2; Myers, 1988). Produc tive pastures on the other hand may assimilate > 100 Other crops kg N ha - each annum, of which 50 to 90% will be Other oilseeds 6 consumed by livestock in intensively grazed systems Beverages I Tobacco 7 (Ledgard, 1991; Thomas, 1995).

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