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Lotus tenuis is a forage legume which grows and fixes atmospheric nitrogen symbiotically in waterlogged conditions. Thus, this plant has potential in the improvement of fertility of areas with low halomorphic soils which frequently become waterlogged. In spite of this, there are no reports upon the conditions and habits of growth of this *Lotus* species. Therefore, the aim of our research plan was to know further about *Lotus tenuis* responses to temperature and photoperiod.

A summary of our results was published in *Lotus Newsletter* 1985. From those results we concluded that the best planting date for a *Lotus tenuis* pasture would be autumn when days are shorter and temperature is expected to be lower. As branching would be enhanced, hence crown growth, so improving pasture establishment. Furthermore, plants photosynthetic capacity per foliar area, net assimilation rate and nitrogen fixation would be greater; therefore, a greater growth would be expected under these conditions, at least at the beginning of pasture growth.

From now on, we will study *Lotus tenuis* resistance to flooding.

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PUBLISHED WORKS

1. EFECTO DEL FOTOPERIODO SOBRE LA NODULACION Y FIJACION DE NITROGENO ATMOSFERICO EN PLANTAS DE SOJA. Balatti, P.A. y E.R. Montaldi. Rev. de la Fac. de Agron. U.N.L.P., Vol. 58, 24 - 29, 1983.
2. EFFECT OF RED AND FAR RED LIGHTS ON NODULATION AND NITROGEN FIXATION IN SOYBEAN (GLYCINE MAX (L.) MERR.) Balatti, P.A. and E.R. Montaldi. Plant and Soil 92, 421 - 430, 1986.
3. NITROGEN ASSIMILATION AND LEAF DEVELOPMENT IN INDETERMINATE SOYBEANS AS INFLUENCED BY POST FLOWERING PHOTOPERIOD. Guiamét, J.J., Balatti, P.A. and E.R. Montaldi. Journal of Exp. Botany 37 (No 184), 1611 - 1618, 1986.
4. GROWTH AND NITROGEN FIXATION IN SOYBEAN (GLYCINE MAX (L.) MERR.) AS AFFECTED BY GIBBERELLIC ACID TREATMENT DURING REPRODUCTIVE DEVELOPMENT. Guiamét, J.J., Balatti, P.A. and E.R. Montaldi. MIRCEN Journal of Applied Microbiology and Biotechnology (in press).

SENT FOR PUBLICATION

1. PHOTOPERIOD AND NIGHT TEMPERATURE EFFECTS ON LOTUS TENUIS GROWTH, NODULATION AND NITROGEN FIXATION. Balatti, P.A. and D.O. Giménez.
2. GIBBERELLIC ACID EFFECTS UPON THE RHIZOBIUM SOYBEAN SYMBIOSIS ON VEGETATIVE SOYBEAN PLANTS GROWN UNDER DIFFERENT PHOTOPERIODS. Balatti, P.A., Guimét, J.J. and E.R. Montaldi.