Gourley, S. A.; **Chaplain, M. A. J.**

Travelling fronts in a food-limited population model with time delay. (English)

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Proc. R. Soc. Edinb., Sect. A, Math. 132, No. 1, 75-89 (2002).

This paper concerns the travelling front solutions of a certain food-limited population model incorporating time-delays and diffusion. For a particular class of delay kernels, exsistence of travelling front solutions connecting two spatially uniform steady states is established for sufficiently small delays.

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MSC:

35K57 Reaction-diffusion equations
92D25 Population dynamics (general)
35R10 Partial functional-differential equations

Keywords:

time-delays; front solutions connecting two spatially uniform steady states

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