

Predictive Microbiology Examples Generated Using the Pathogen Modeling Program (PMP6.0)



<http://www.arserrc.gov/mfs/PATHOGEN.HTM>



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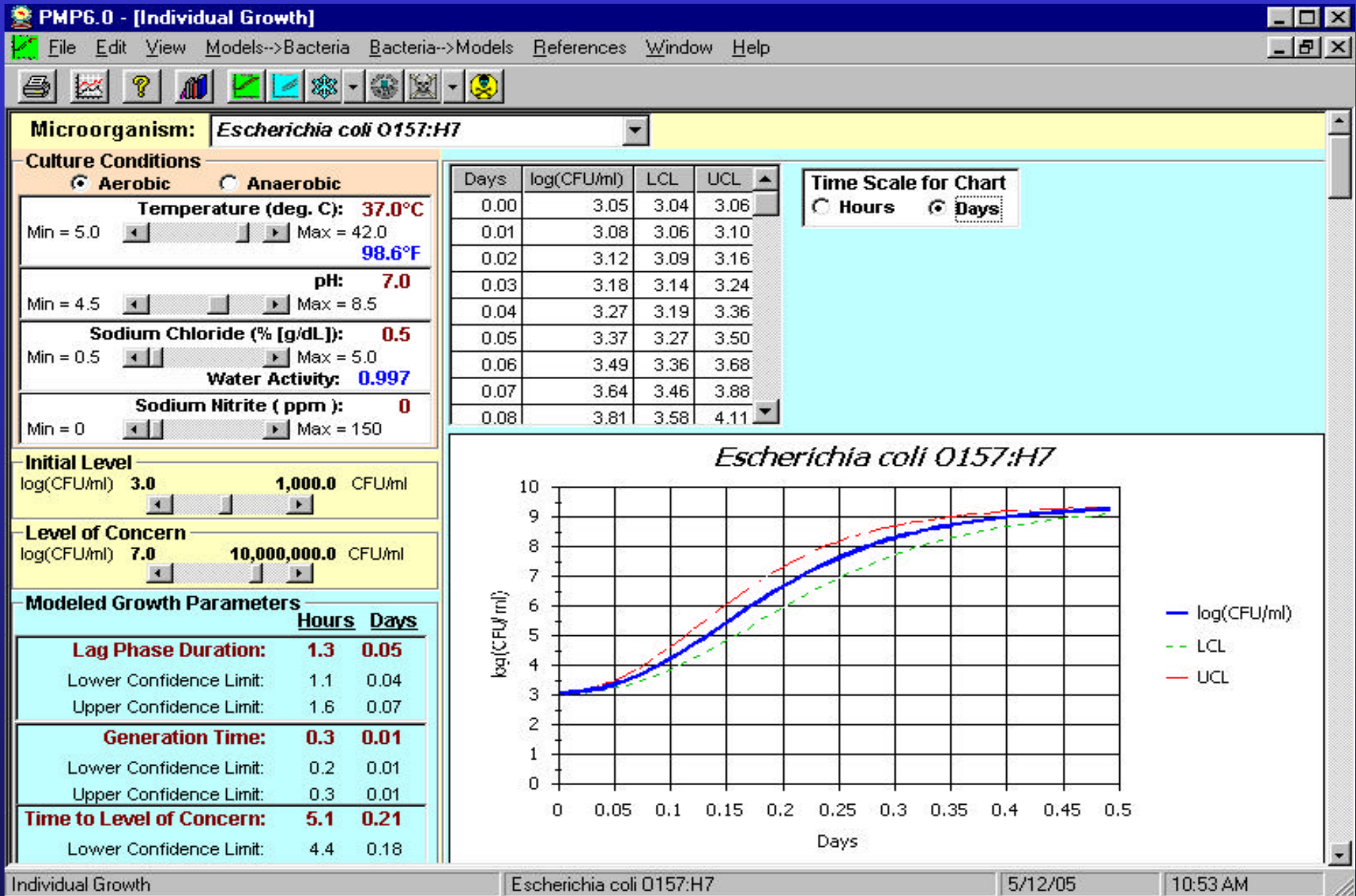
Pathogen Modeling Program Version 7.0 Installation

- **Microsoft.net Framework 1.1 must be installed before installing PMP 7.0.**
If programs on your computer have required this feature, then .Net 1.1 may already have been installed. To determine if this is so, go to "Start | Settings | Control Panel | Add or Remove Programs" and look for the Microsoft .NET Framework 1.1 listing. If it is not installed, go to: [Microsoft Windows Update](#) The website will briefly check for software and then present "Scan for updates". After selecting and performing the scan, click on the Windows option under "Pick updates to install" (in left-side window), locate "Microsoft .NET Framework 1.1" (in right-side window) and complete installation.
- Register and Download the Installation file (**pmp7release1.exe**) and save it to your Hard drive.
 - Click "Register and Download" below and you will be taken to the Registration page.
 - After completing required fields, click "Register" to get to the Download page.
- Exit all Running Applications and Disable Virus Protection before installing PMP 7.0

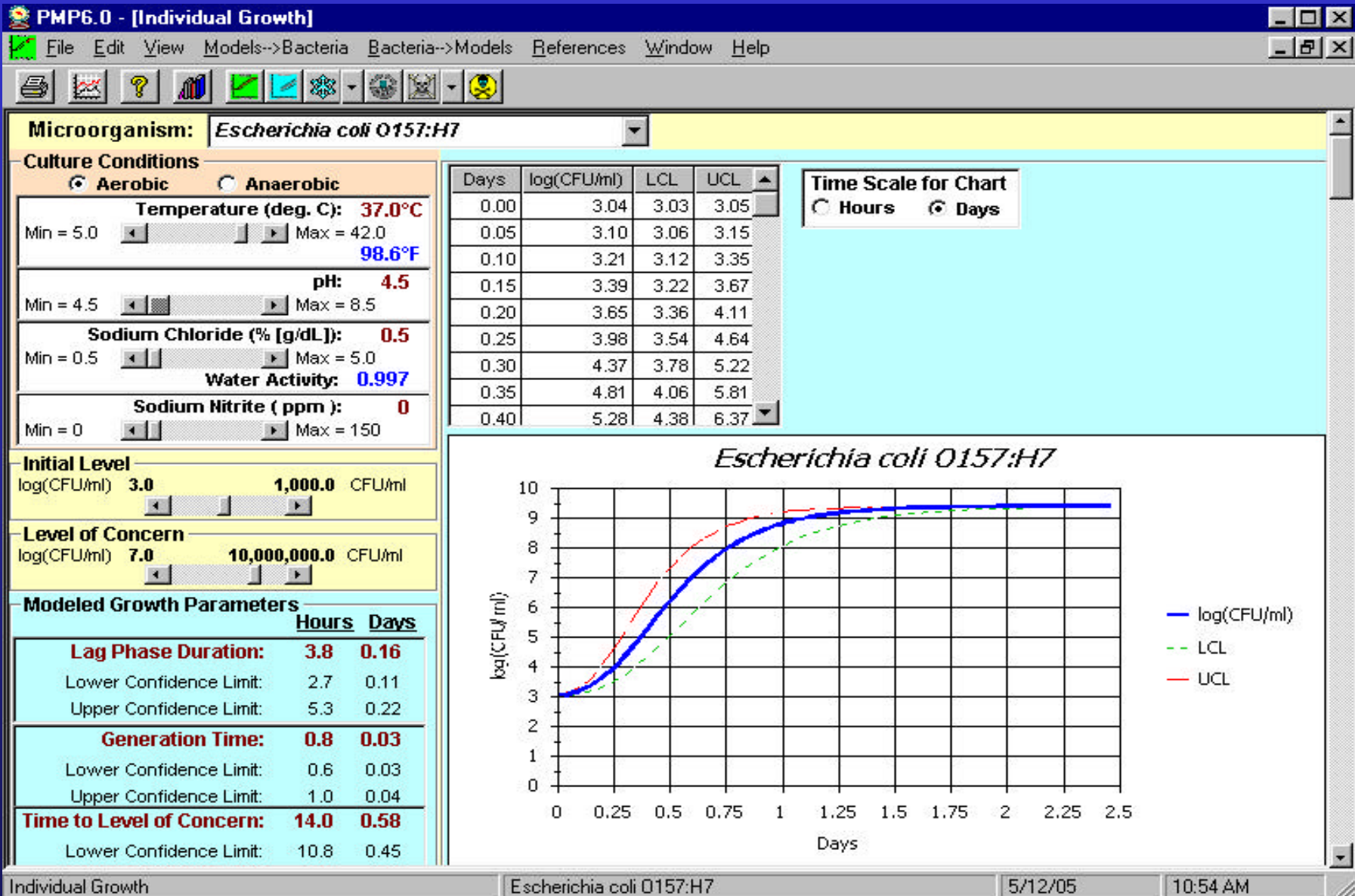
Outline of examples on predicting growth/ survival of microbial pathogens under varying conditions.

- Scenarios 1, 2, and 3 pertain to growth of *Escherichia coli* O157:H7.
- Scenarios 4, 5, and 6 pertain to growth of *Staphylococcus aureus*.
- Scenarios 7 and 8 pertain to inactivation of *Escherichia coli* O157:H7 in a meat system by irradiation.
- Scenarios 9, 10, 11, and 12 pertain to heat inactivation of *Clostridium botulinum*.

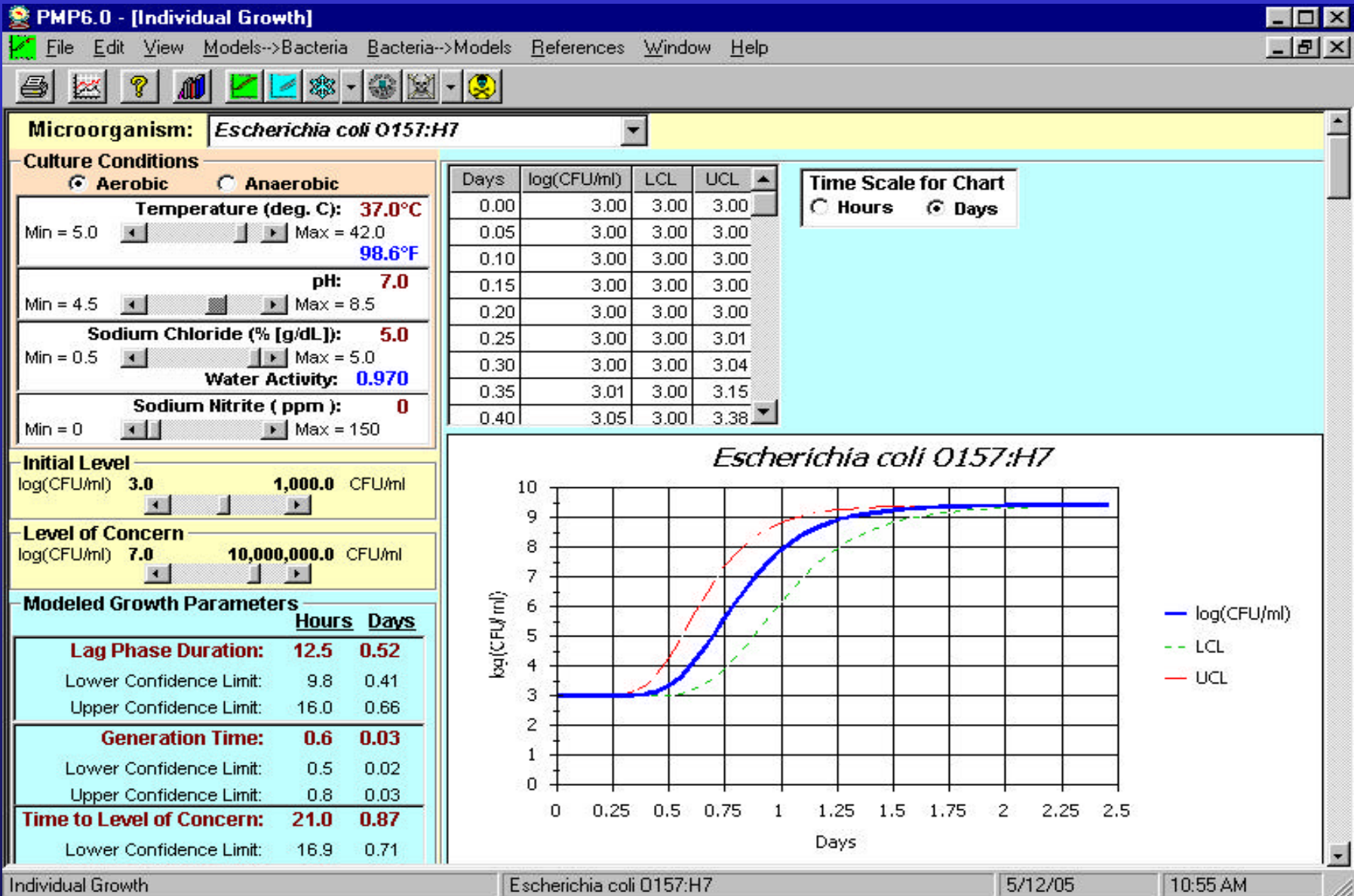
Scenario 1: Growth of *Escherichia coli* O157:H7



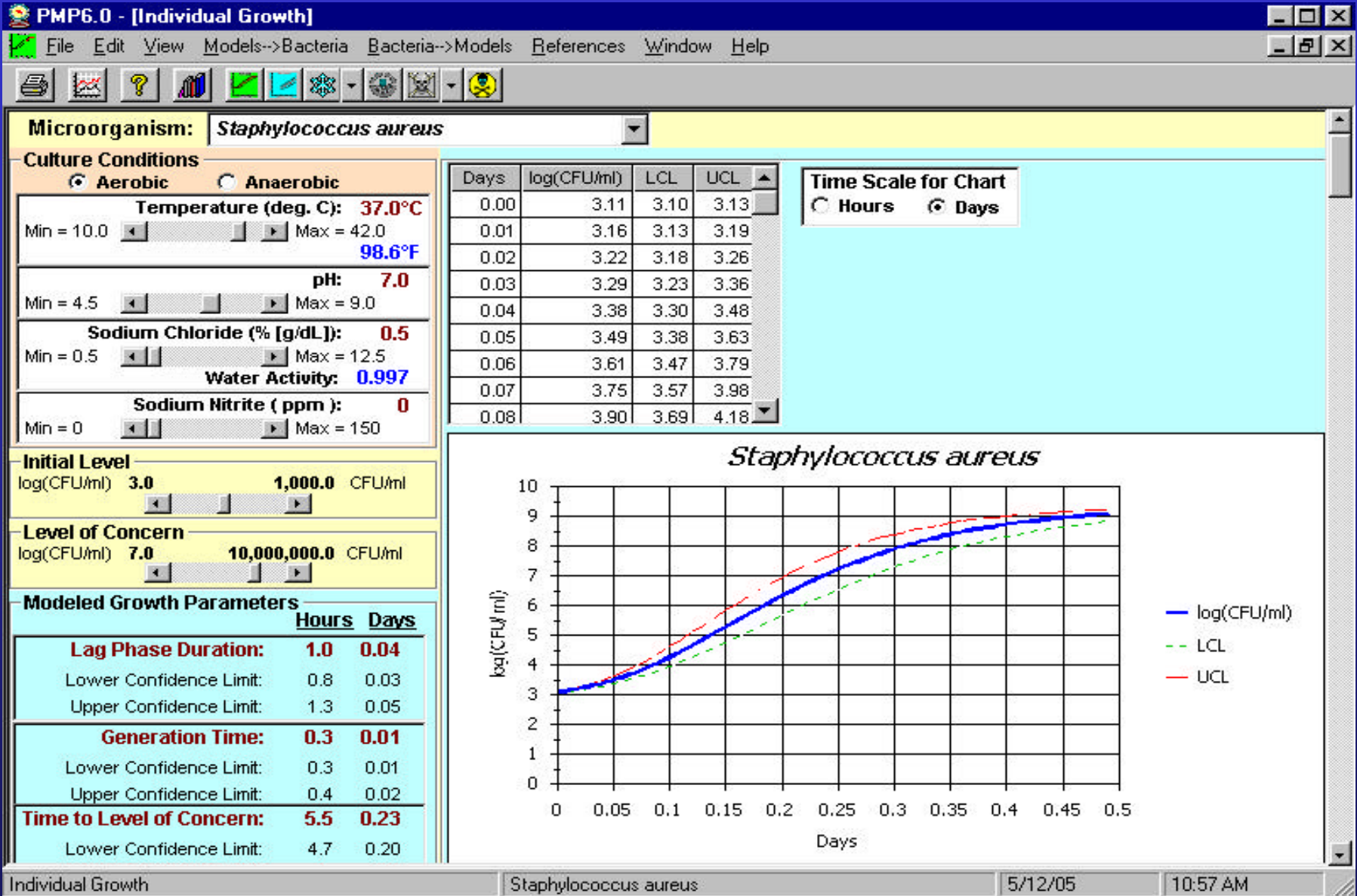
Scenario 2: Growth of *Escherichia coli* O157:H7



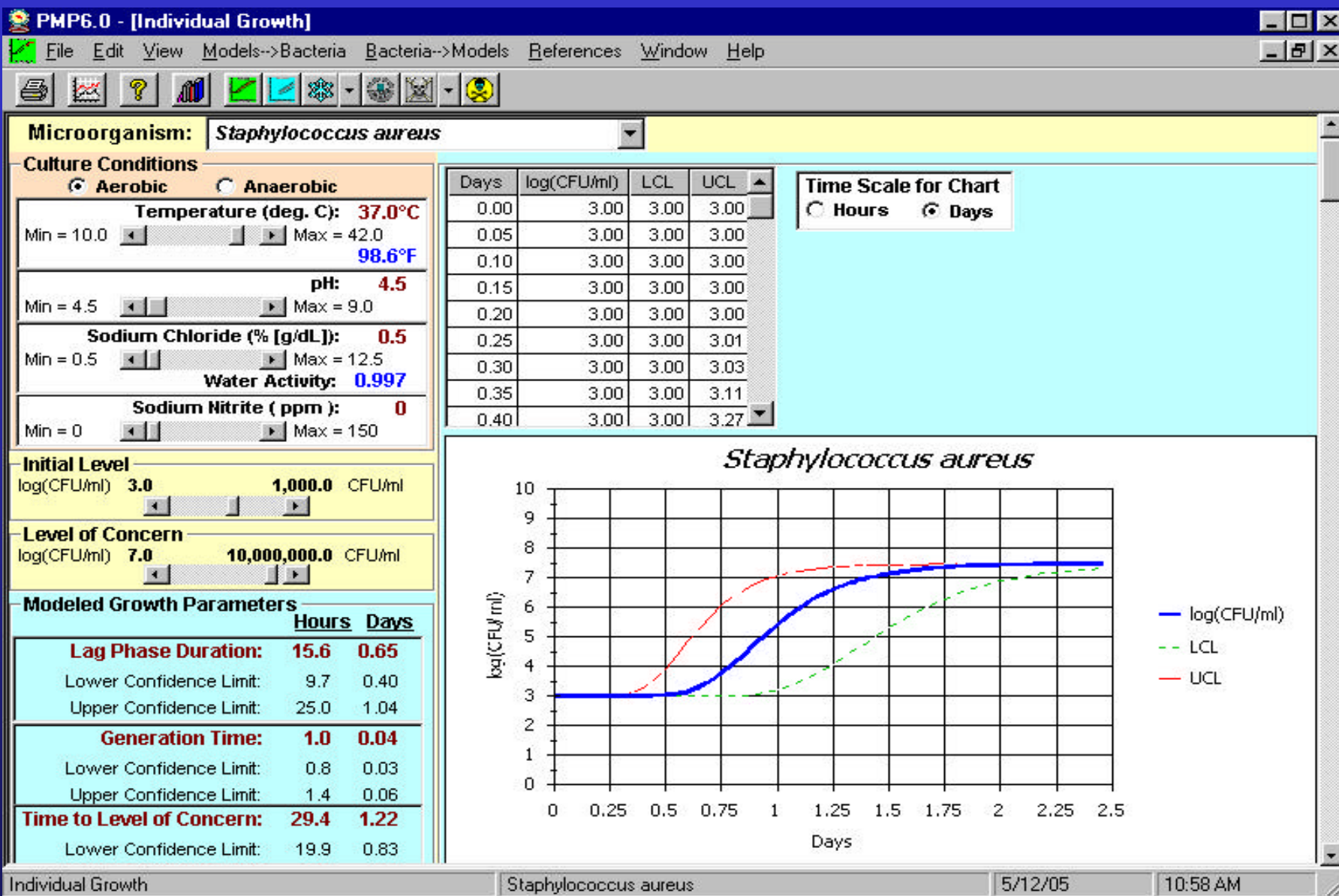
Scenario 3: Growth of *Escherichia coli* O157:H7



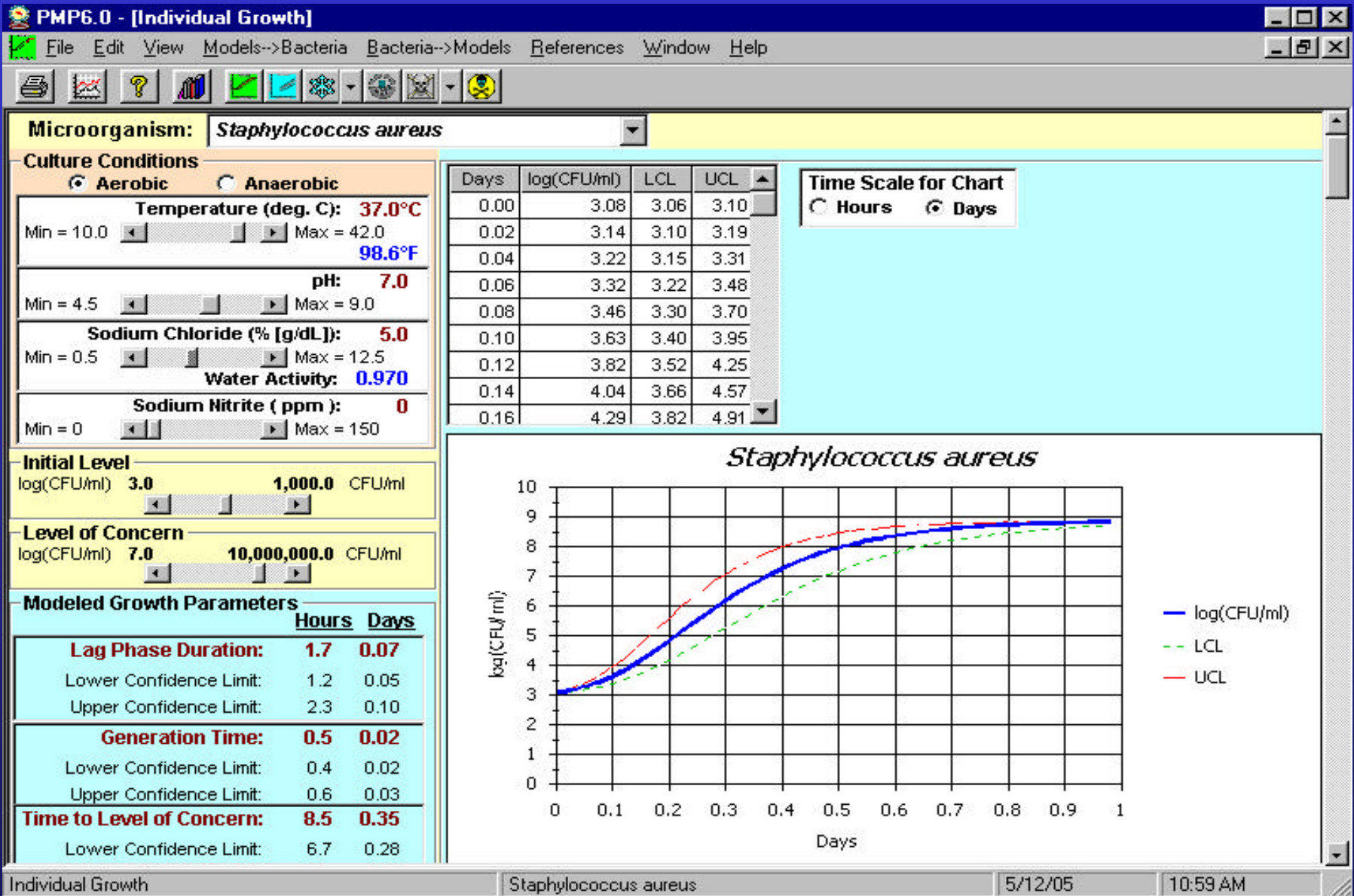
Scenario 4: Growth of *Staphylococcus aureus*



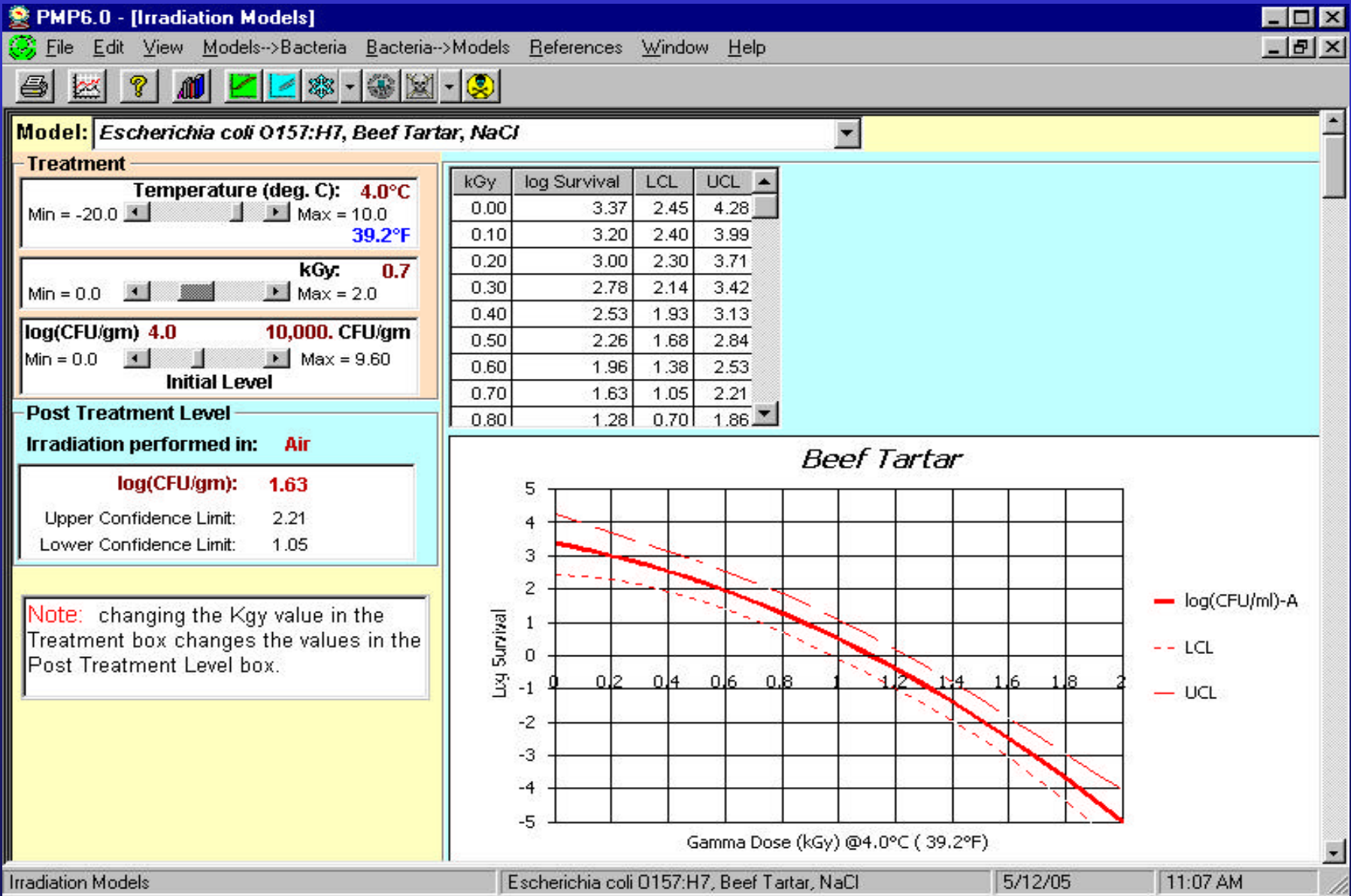
Scenario 5: Growth of *Staphylococcus aureus*



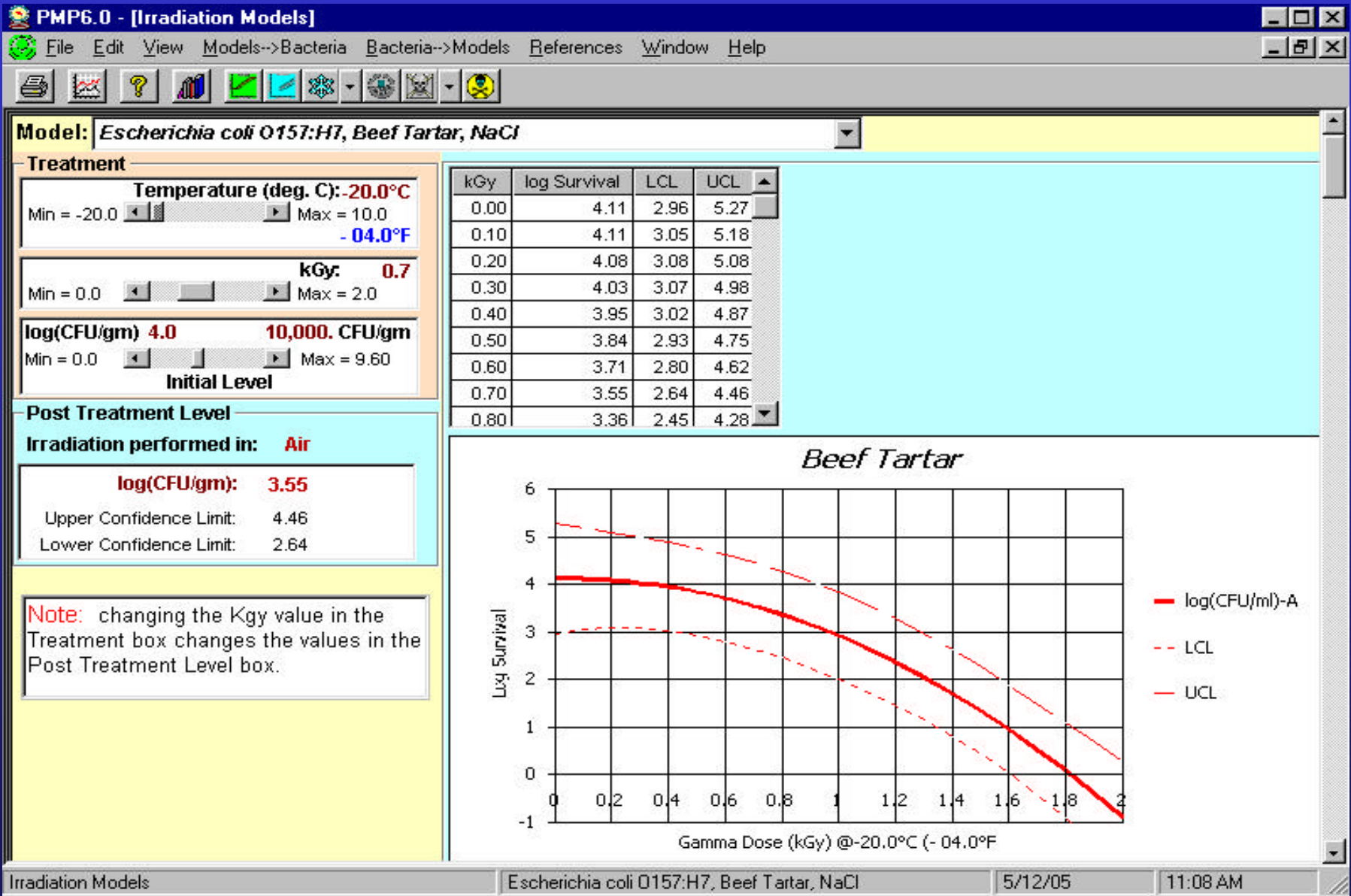
Scenario 6: Growth of *Staphylococcus aureus*



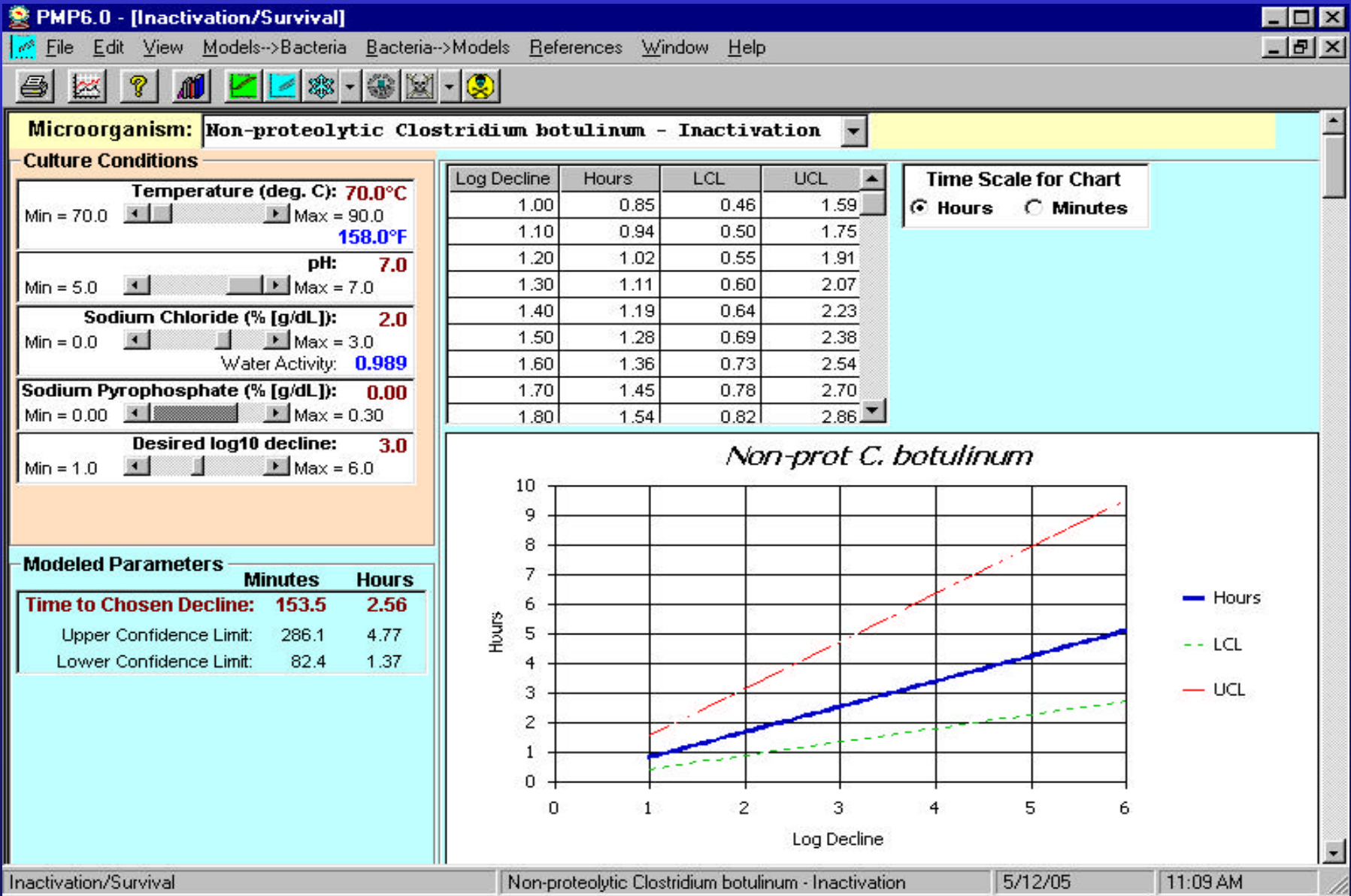
Scenario 7: Inactivation of *E. coli* O157:H7 in a meat system by irradiation



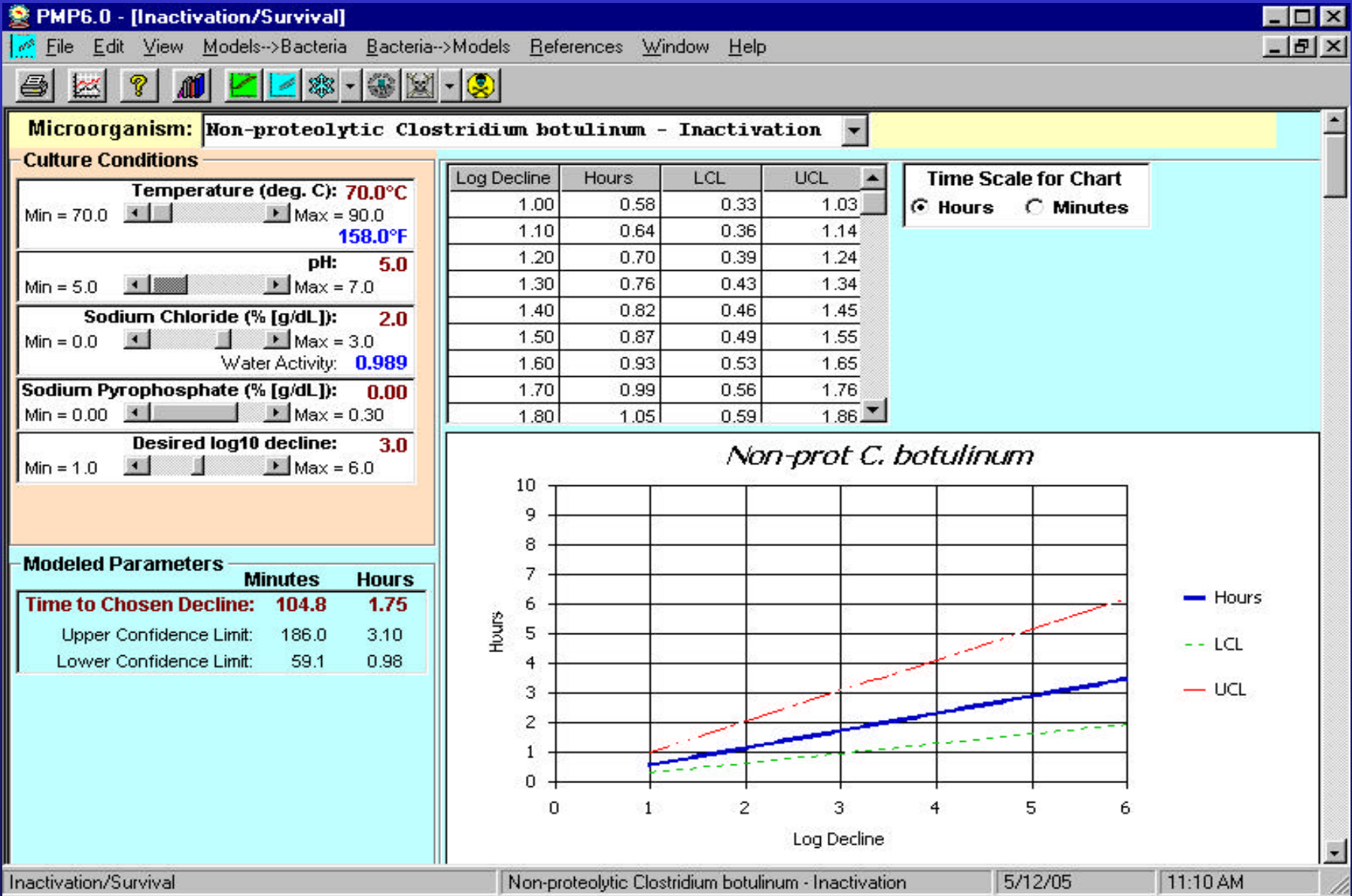
Scenario 8: Inactivation of *E. coli* O157:H7 in a meat system by irradiation



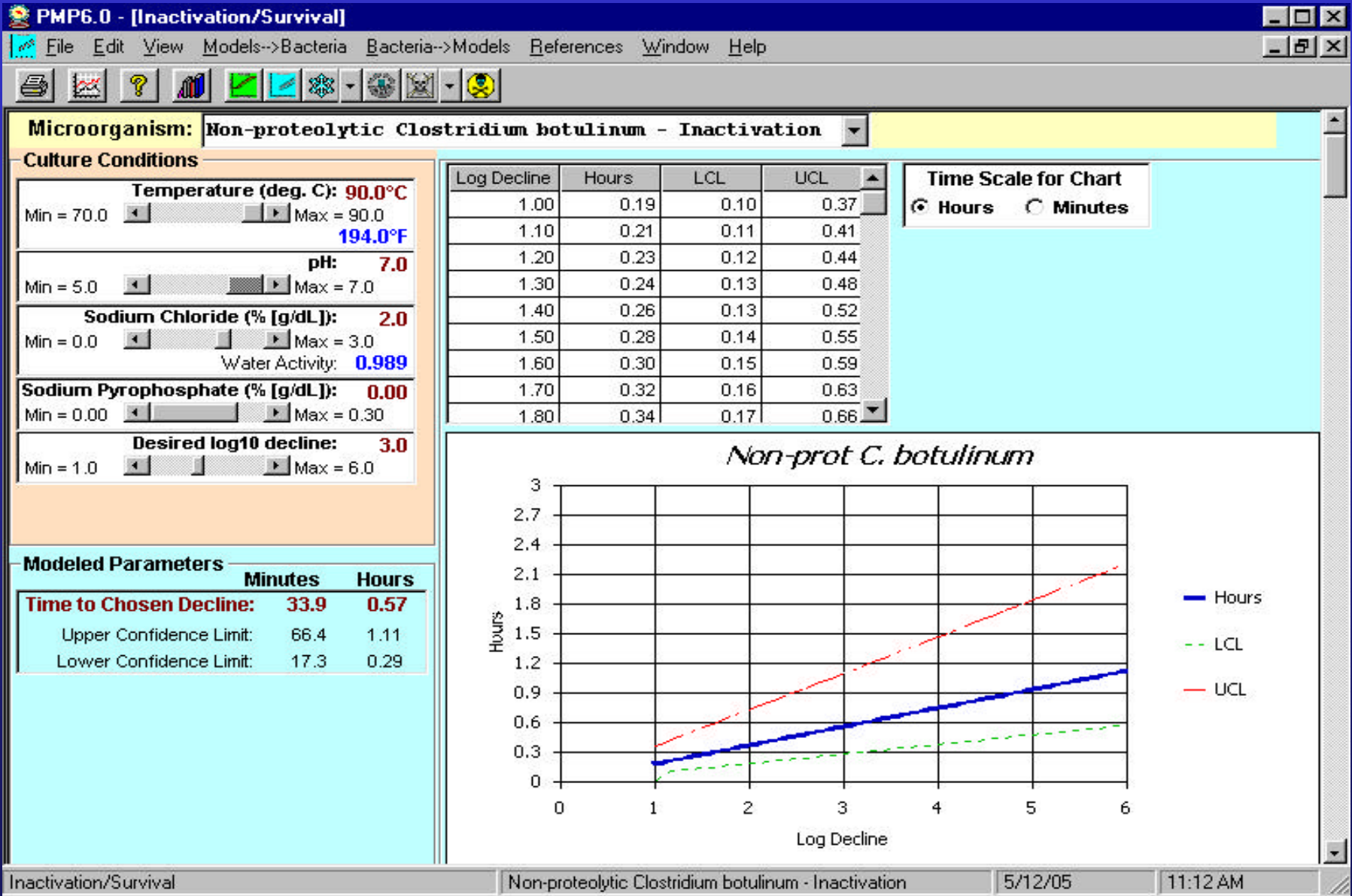
Scenario 9: Heat inactivation of *C. botulinum*



Scenario 10: Heat inactivation of *C. botulinum*



Scenario 11: Heat inactivation of *C. botulinum*



Scenario 12: Heat inactivation of *C. botulinum*

