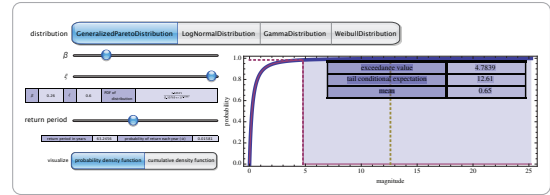


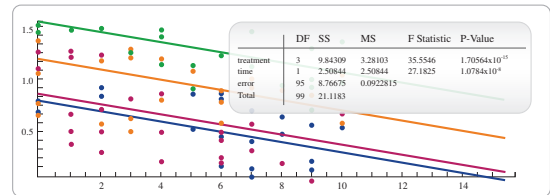
THE *MATHEMATICA*[®] ACTUARIAL SCIENCES SOLUTION

Bring in standardized data from our sources or your spreadsheets, calculate risks or premiums symbolically or numerically, and present fully interactive charts and reports with traditional actuarial notation—a complete workflow.

Underlying the *Mathematica* actuarial sciences solution is the most automated and reliable environment for computation, rapid development, and web or local deployment.

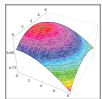


$$n|m q_x \quad e^{\int_0^x \overline{\mu}_{x+t} dt}$$



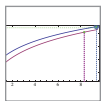
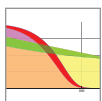
Why *Mathematica* in Actuarial Sciences?

Mathematica includes thousands of built-in functions for computation, modeling, visualization, development, and deployment.



KEY ACTUARIAL SCIENCES CAPABILITIES

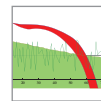
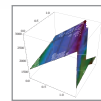
- Statistical analysis tools, standard probability distributions, and dispersion measures for calculating risks and cumulative probabilities
- ANOVA and post-hoc tests to examine survival models with interdependent parameters
- Symbolic and numeric integration and other capabilities for calculating expected losses and payments
- Calculate with built-in traditional mathematical notation that can be extended with industry-standard actuarial notation
- Built-in geographic, economic, and demographic information that can be combined with data imported in all common data formats



$${}^2 \overline{A}_{x:\overline{n}|}$$

WAYS TO USE

- Import life tables or other spreadsheets and easily do complex calculations
- Calculate present value of expected premiums or benefits to set pricing for insurance policies
- Create interactive tools for quick calculations or presentations and deploy them to others with the *Mathematica Player*[™] family or web*Mathematica*[™]
- Visualize your data in any way you choose, including creating interactive plots
- Compare the possible premiums and payments of several policies
- Give presentations using industry-standard notation



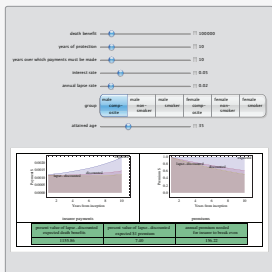
And more at:

➔ wolfram.com/solutions/flyer/actuariesciences

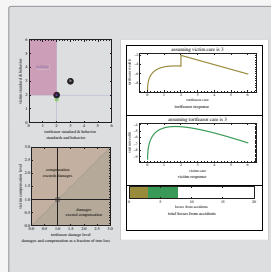
MATHEMATICA IN ACTUARIAL SCIENCES

Interactive Actuarial Sciences Examples

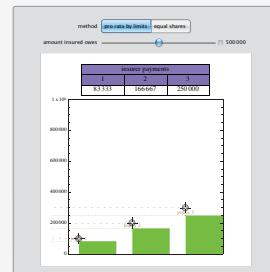
The Wolfram Demonstrations Project offers thousands of free, ready-to-use models contributed by users. Here are a few examples:



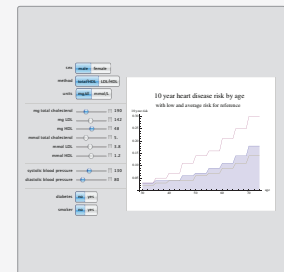
Life Insurance Pricing



Bilateral Accident Model



Coordination of Insurance Policies



Heart Disease Risk

WHO USES MATHEMATICA?

Some of the most important institutions in the world, including:

Allstate

Deutsche Bank AG

Metropolitan Life

Federal Reserve Board

The Institute of Statistical Mathematics

Goldman Sachs

WHAT ARE THE EXPERTS SAYING ABOUT MATHEMATICA?

"When I tell them [legislators] what the risks are of post-event bonding, they know I'm not talking out of my hat. They know there's real science behind this."

Seth Chandler

University of Houston Law Center

"Combining the speed, the power, the set of functions you have available for programming, what you get is an amazing toolbox that [is] hard to find anywhere else."

Ariel Sepúlveda

Founder, Pronto Analytics

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Support: +49-6172-5905-20 support@additive-net.de

NEXT STEPS

Visit our Actuarial Sciences Solutions page to find out how to incorporate *Mathematica* into your daily work and research.

Key resources include:

- Video screencasts
- Free online seminars
- Full *Mathematica* documentation, with more than 50,000 examples, how tos, and tutorials
- Books and articles

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QUESTIONS?

Contact us and let us work with you to find the right solution for your computational needs.

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