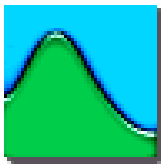


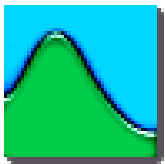
GenStat for Teaching and Learning

David Baird VSN NZ



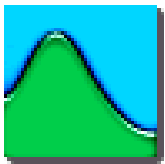
Main Players

- **Stewart Andrews** **VSN CEO**
- **John Harraway** **University of Otago**
- **Roger Payne** **VSN CTO**
- **Darren Murray** **VSN developer**
- **David Baird** **VSN developer**
- **Jeanette Chapman** **HOD Mathematics**
Otago Girls HS



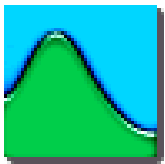
Aim

- To produce a simple to use version of GenStat that covered the New Zealand year 13 statistics curriculum
- Use the latest 13th edition as a basis
- Reduce statistics menu down to a single list
- Leave all appropriate graphics
- Connect with John Harraway's real life video examples
- Educational help



Developments

- **New Start page**
- **Connections to Computer-Assisted Statistics Textbooks**
- **Added Bootstrap menu (new to Y13 stats)**
- **Enhanced Boxplot with NP standard errors**
- **Added graphing from Summary menus**
- **Simplified Linear regression menu**
- **Updated graphics menus**
- **Set of GenStat datasets from J Harraway's examples added**



Restrictions

Maximum number of rows: 2500

Maximum number of columns: 100

Maximum units in ANOVA, regression, REML or MVA: 500

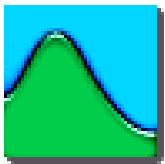
Maximum no. of regression parameters: 100

Maximum no. of variables in MVA: 100

Maximum no. of factors in an ANOVA or REML : 10

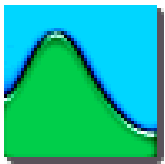
Maximum no. of terms in a statistical model: 15

Limited for commercial reasons as license freely distributed within institute for home installation



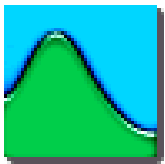
Otago Videos

- www.maths.otago.ac.nz/videos/statistics/
- 13 real life examples
- Data included in GenStat
- Lesson plan for each dataset
- 3 short video examples
- Rock wren - inference
- Calf Disbudding - ANOVA
- Oysters - discrimination



GenStat TL is in use in the following countries:

- **New Zealand, UK, Kenya, Australia, USA, Nigeria, Canada, Germany, Argentina, Brazil, Chile, France, Ghana, Malaysia, Mexico, Romania, Seyschelles, South Africa, Spain, Thailand, UAE, Costa Rica (sorted in order of number of sites)**



Demonstration

- **Rock wren example**
- **Sports records (regression)**
- **Oyster example**

