

# Severity classification in Provet

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- The statistics data can be edited by...
  - the licence holder
  - the project-responsible person of the sub-project / internal licence
  - the principal researcher
  - the payer
- The data can be sent to the use report by the project-responsible person only.
- The statistics data must be compiled and sent **at the latest by the end of February!**

# Go to Reports à Compilation of statistics



The screenshot shows the top navigation bar of the PROVET LabAnimals system. The header includes the logo 'PROVET LabAnimals' and the user's login status: 'Logged in: Sakari Laaksonen [ My details ] [ Log out ] [ Info ]'. Below the header is a horizontal menu with various options: 'Animals', 'Messages', 'Licenses', 'Sales', 'Rooms', 'Work request', 'Procedures', 'Tools', 'Welfare problem', and 'Reports'. The 'Reports' option is highlighted with a red circle. Below the menu, a welcome message reads: 'Welcome to the data system of the University of Oulu Laboratory Animal Centre'.

Search the animals – usually write the licence number or use "Select licence". Use other search conditions as needed.

## PROVET LabAnimals

Animals Messages Licenses Sales Rooms Work request Procedures Tools Welfare problems Reports

### Compilation of statistics

<b>Time of removal</b>	<input type="text"/> + - <input type="text"/> +	<b>License number</b>	<input type="text"/>	<b>Select license</b>	<b>Primary researcher</b>	<input type="text" value="Not selected"/>	<b>Type of license</b>	<input type="text" value="Not selected"/>
<b>ID</b>	<input type="text"/>	<b>Species</b>	<input type="text" value="Not selected"/>	<b>Stock/strain</b>	<input type="text" value="Choose species"/>	<b>Unweaned</b>	<input type="text" value="Not selected"/>	<input type="text"/>
<b>Use</b>	<input type="text" value="Not selected"/>	<b>GS</b>	<input type="text" value="Not selected"/>	<b>NewGL</b>	<input type="text" value="Not selected"/>	<b>OldGL</b>	<input type="text" value="Not selected"/>	<input type="text"/>
<b>The actual severity</b>	<input type="text" value="Not selected"/>	<b>COMPLETED</b>	<input type="text" value="Not selected"/>	<b>Statistics</b>	<input type="text" value="Not selected"/>			
<input type="button" value="Search"/>	<input type="button" value="Show all"/>	<input type="button" value="Clear search details"/>						

# In the animal list, check the data in the drop-down menus and correct if needed. Choose the actual severity for each animal.

Compilation of statistics

**Time of removal**  +  -  + 
**License number**  
**Primary researcher** 
**Type of license**

**ID**   
**Species** 
**Stock/strain** 
**Unweaned**

**Use** 
**GS** 
**NewGL** 
**OldGL**

**The actual severity** 
**COMPLETED** 
**Statistics**

ID	Species (Stock/Strain)	License	Research ID and further details of removal	Removal	Statistics	Use	Re-Use	GS	NewGL	OldGL	SV Anticipated	SV Actual	COMPLETED / SENT
<b>Unweaned</b>													
e1	1	46/2015		Killed after th...	Unfinished	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
CD1-417-sentin e1	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinished	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
CD1-418-sentin e1	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinished	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
CD1-419-sentin e1	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinished	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>

After checking all the data and the actual severity, tick the left box in the completed/sent –column à Click "Save" at the bottom left.

ID	Species (Stock/Strain)	License	Research ID and further details of removal	Removal	Statistics	Use	Re-Use	GS	NewGL	OldGL	SV Anticipat	SV Actual	COMPLETED / SENT
						Default							
Unweaned						Default							SENT
<u>Sentinel-1</u>	Rat Galn t2	46/2015		3.9.2018 Killed unused/a...	Unfinishe	N	N	GS1	N	N	NB	NB	<input checked="" type="checkbox"/>
<u>CD1-415-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-416-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-417-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-418-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-419-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-420-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-421-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-422-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-423-sentin el</u>	Mouse CD 1	46/2015		14.8.2018 Killed after th...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-86-sentine l</u>	Mouse CD 1	46/2015		27.7.2018 Killed unused/a...	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>
<u>CD1-87-sentine l</u>	Mouse CD 1	46/2015		27.7.2018	Unfinishe	N	N	GS1	N	N	NB	NB	<input type="checkbox"/>

# Completed but not yet sent

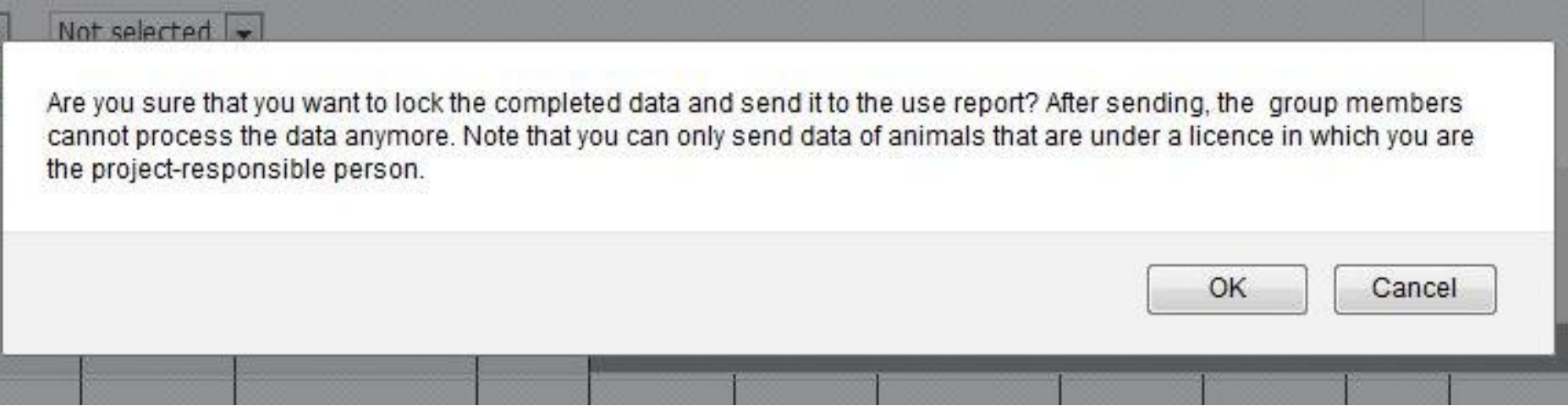
à The scene now looks like this:

ID	Species (Stock/Strain)	License	Research ID and further details of removal	Removal	Statistic	Use	Re-Use	GS	NewGL	OldGL	SV Anticipat	SV Actual	COMPLETED / SENT
Unweaned						Default							Not valid
Sentinel-1	Rat Gain t2	46/2015		3.9.2018 Killed unused/a...	FI	N	N	GS1	N	N	NB	NB	SENT
CD1-415-sentin	Mouse CD			14.8.2018									

Click "Send the completed data to the use report".

Save    Export to Excel    **Send the completed data to the use report**    Export the sent data to Excel.    Export to the EU Excel.

# Confirm you want to send the data – click OK.



**The completed/sent –square turns green and the sent-box on the right is ticked. You are now ready!**

ID	Species (Stock/Strain)	License	Research ID and further details of removal	Removal	Statistics	Use	Re-Use	GS	NewGL	OldGL	SV Anticipated	SV Actual	COMPLETED / SENT
Unweaned						Default							Not valid
Sentinel-1	Rat Galn t2	46/2015		2.9.2018 Killed unused/a...	FI	N	N	GS1	N	N	NB	NB	(X) Laba
CD1-415-sentin	Mouse CD	46/2015		14.8.2018 Killed offspr...	Unfinishe	N	N	GS1	N	N	NB	NB	<input checked="" type="checkbox"/>



- The default data in the animal list are based on the information in the licence and animal card.
- There may be animals in the licence with differing specifications for the statistics report → **default data are not always correct!**

# Use

- **(N)** No procedures requiring a project licence have been done; no pain / suffering.
- **(Y)** A procedure requiring a project licence has been done to the animal.
  - Pain/suffering at least comparable to the introduction of a needle
- **(NB)** The animal is not entered in statistics in Laboratory Animal Centre (KEKS).
  - e.g. if the animal was removed by sending it to another university.
- The default for project licences is (Y), but that is not always correct for all animals.
- The default for internal licences is (N).

# Re-use

- (N) The animal was not re-used.
- (Y) The animal was re-used.
  - **Re-use means that the animal was used in more than one experiment – has to be specified in the licence.**
  - The researcher enters in the statistics report only the data of the last project the animal was in.

# GS

- **The individual gene-modification status of the animal**
- **(GS1)** Not gene-modified
- **(GS2)** GM without a harmful phenotype
- **(GS3)** GM with a harmful phenotype
- **(GS2/GS3)** GM, but the phenotype of the line is not yet characterized.
- The default may not always be correct, e.g. if homozygotes have a harmful phenotype but heterozygotes do not.

# NewGL

- (N) The animal was not used in creating a new GM line.
- (Y) The animal was **used in creating a new GM line.**
- Completely new GM lines through laboratory methods and embryo transfer are created under a specific project licence of Biocenter in Oulu.
- New GM lines can also be obtained through cross-breeding.
- Producing individual animals for experimental procedures through cross-breeding **does not** count as a creation of a new GM line.

# OldGL

- (N) The animal was not used for maintaining an established GM line.
- (Y) The animal was **used for maintaining an established GM line – not used in experimental procedures.**
- The default may be incorrect, if the project licence includes both experimental procedures and maintenance of animal line(s) with a harmful phenotype.

# SV anticipated

- This is the advance estimation of the severity of the sub-project procedure by the licence board.
- If there are alternative procedures and different severities for individual animals in the sub-project, this is the most severe of the alternatives.

# SV actual

- This is **the actual, realized severity for an individual animal**.
- The default is the same as the anticipated severity. Often it is correct if no complications occur in the experiment.
- However, the estimation of severity in advance is not always easy, and the licence board doesn't always get it right!
- Sometimes there is a lot of variation between individual animals in their response to the procedures.



# The actual severity

- **(SV1)** Non-recovery
  - **(SV2)** Mild (or less)
  - **(SV3)** Moderate
  - **(SV4)** Severe
- Project licences / sub-projects**
- **(NB)** No need to classify (no harm/pain caused to the animal; **internal licences**)
  - According to the EU statistics guidelines, all animals used under a project licence are classified as at least mild, even if no harm was actually caused to the animal.

# Individual severity: Hundreds of mice – how can I remember them all?!

- **Compile the statistics as soon as possible after removing the animals!**
- **Tip 1**: Look at the "Removal" column. Note if the category of removal is:
  - Killed due to a welfare problem caused by an experimental procedure / genetic modification
  - Died as a result of an experimental procedure / genetic modification

# Individual actual severity

- **Tip 2:** Look at the "Research ID and further details of removal" column.
  - "HVO" = hyvinvointiongelman = welfare problem

# Individual actual severity

- **Tip 3**: Open the animal card by clicking on the animal ID
  - **”Welfare problems”**
  - **”Actions by researcher”**: Here you can write down the procedures and the detected severities during the experiment à direct linking to the actual severity -column in the statistics tool.
  - **”Notes”**: Here you can write notes of anything noteworthy about the animal during the experiment.