QGIS Application - Bug report #19322 Random selection within subsets throws exception

2018-07-03 04:02 PM - Dénes Szalontai

Status: Closed Priority: High

Assignee:

Category: Processing/QGIS

Affected QGIS version:3.2 Regression?: Yes
Operating System: Easy fix?: No

Pull Request or Patch shapplied: Resolution:

Crashes QGIS or corruptes data: Copied to github as #: 27150

Description

Random selection within subsets throws an exception if a subset has less element than the value set in 'Number/percentage of selected feature' field and Method is 'Number of selected features'

Error message:

Traceback (most recent call last):

 $File \ "C:/PROGRA~1/QGIS3~1.2/apps/qgis/./python/plugins\processing\algs\qgis\RandomSelectionWithinSubsets.py", line 141, in processAlgorithm$

selran.extend(random.sample(subset, selValue))

File "C:\PROGRA~1\QGIS3~1.2\apps\Python36\lib\random.py", line 317, in sample

raise ValueError("Sample larger than population or is negative")

ValueError: Sample larger than population or is negative

It worked on the same data with QGIS 2.18.10 (but was extremely slow)

Associated revisions

Revision 29207a16 - 2018-07-04 05:30 PM - Alexander Bruy

[processing] fix Random extract/select within subset when subset is smaller than number of requested features (fix #19322)

Revision 5ae24307 - 2018-07-10 03:15 AM - Alexander Bruy

[processing] fix Random extract/select within subset when subset is smaller than number of requested features (fix #19322)

(cherry-picked from 29207a16)

History

#1 - 2018-07-03 06:26 PM - Giovanni Manghi

- Status changed from Open to Feedback

Did it worked as expected (with the described values) in previous releases?

2025-04-27 1/3

#2 - 2018-07-03 06:58 PM - Dénes Szalontai

- Status changed from Feedback to Open

I checked it in QGIS 3.0.3 and the same issue occurs:

Traceback (most recent call last):

File "C:/PROGRA~1/QGIS3~1.0/apps/qgis/./python/plugins\processing\algs\qgis\RandomSelectionWithinSubsets.py", line 137, in processAlgorithm

selran.extend(random.sample(subset, selValue))

File "C:\PROGRA~1\QGIS3~1.0\apps\Python36\lib\random.py", line 317, in sample

raise ValueError("Sample larger than population or is negative")

ValueError: Sample larger than population or is negative

It works well and produces the expected result in QGIS 2.18.10 with the same input data and the same settings.

#3 - 2018-07-03 07:00 PM - Giovanni Manghi

- Regression? changed from No to Yes
- Priority changed from Normal to High

#4 - 2018-07-04 08:02 AM - Alexander Bruy

- Category changed from Python plugins to Processing/QGIS
- Status changed from Open to Feedback

Please provide test dataset and steps to reproduce the issue

#5 - 2018-07-04 02:05 PM - Dénes Szalontai

- File Sample.csv added
- Status changed from Feedback to Open

Steps to reproduce:

- 1. Add the attached sample.csv layer with Layer -> Add Layer -> Add Delimited Text Layer (delimiter: semicolon, the first record has field names, EPSG: 4326)
 - 2. Start the Random selection within subsets tool from Vector -> Research Tools
- 3. Select **Sample** as *Input layer*, **SPEEDLIMIT** as *ID field*, **Number of selected features** as *Method* and **5** as *Number/percentage of selected features*
 - 4. Hit Run to start processing

Actual behaviour in QGIS 3.x:

An exception is thrown and the execution fails with the error message

Traceback (most recent call last):

File "C:/PROGRA~1/QGIS3~1.2/apps/qgis/./python/plugins\processing\algs\qgis\RandomSelectionWithinSubsets.py", line 141, in processAlgorithm

selran.extend(random.sample(subset, selValue))

File "C:\PROGRA~1\QGIS3~1.2\apps\Python36\lib\random.py", line 317, in sample

raise ValueError("Sample larger than population or is negative")

ValueError: Sample larger than population or is negative

2025-04-27 2/3

Actual behaviour in QGIS 2.18.10:

Process finishes successfully with the expected result

Note: The sample data contains the value 110 less than 5 times (only once) in SPEEDLIMIT column. If I set *Number/percentage of selected features* to 1 then process finishes successfully in QGIS 3.x as well but it fails with any other values.

Note 2: Random extract within subsets tool fails as well with this data in QGIS 3.x

#6 - 2018-07-04 06:53 PM - Alexander Bruy

- % Done changed from 0 to 100
- Status changed from Open to Closed

Applied in changeset commit:qgis|29207a1617678eb3a3922ff3dd74c3b6b6b193a5.

Files

Random_selection_within_subsets.txt	883 Bytes	2018-07-03	Dénes Szalontai
Sample.csv	5.97 KB	2018-07-04	Dénes Szalontai

2025-04-27 3/3