

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 supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	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?

#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

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