

## QGIS Application - Bug report #11135

### Zonal Statistics is calculating wrong mean values

2014-09-04 12:01 AM - Marcel Foelsch

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Category:</b>	Analysis library	
<b>Affected QGIS version:</b>	master	<b>Regression?:</b> No
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	No	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	No	<b>Copied to github as #:</b> 19463
<b>Description</b>		
<p>Hello,</p> <p>the Zonal Statistics tool doesn't work correctly (wrong MEAN value). Here is a link to the Forum-question: [<a href="http://gis.stackexchange.com/questions/112435/is-there-an-issue-with-zonal-statistics-calculating-wrong-mean-values">http://gis.stackexchange.com/questions/112435/is-there-an-issue-with-zonal-statistics-calculating-wrong-mean-values</a>]</p> <p>I'm using QGIS 2.2.</p>		

#### Associated revisions

##### Revision 213a22bc - 2015-04-16 09:40 PM - Nyal Dawson

Fix calculation of zonal stats when source contains nodata or nan pixels (fix #11135)

##### Revision a0017f97 - 2015-05-10 12:34 PM - Nyal Dawson

Fix calculation of zonal stats when source contains nodata or nan pixels (fix #11135)

#### History

##### #1 - 2014-10-05 08:18 AM - Giovanni Manghi

- File rast2.tif added
- Category set to 94
- Affected QGIS version changed from 2.4.0 to master

I can confirm this on the latest master, where both the tool in the raster menu and in the processing toolbox (one C++ and the other python) make the same error and give the wrong result.

The provided test raster has no data areas and once transformed them into 0 then the zonal stats tool returns the same mean value, meaning that it seems no data is taken into account as 0.

Please notice also that:

with the processing tool and the provided sample raster the "min" and "max" values do not make any sense (and it seems to give the wrong values with any input raster)

other computed values too, both with the processing tool and the C++ plugin seems odd.

**#2 - 2014-11-22 01:20 AM - Alexander Bruy**  
- Category changed from 94 to Processing/QGIS

**#3 - 2015-04-15 08:45 AM - Paolo Cavallini**  
- Category changed from Processing/QGIS to 115

I confirm; the problem seems to lay in the core C++ plugin rather than in Processing, and it is due to NULL values

**#4 - 2015-04-16 12:42 PM - Nyal Dawson**  
- Status changed from Open to Closed

Fixed in changeset commit:"213a22bc8ac936ff0c0179d565ca3bd5cf1f68f3".

**#5 - 2015-04-16 02:16 PM - Paolo Cavallini**

Thanks Nyal. Has this been backported?

**#6 - 2017-01-02 01:26 AM - Giovanni Manghi**  
- Category changed from 115 to Analysis library

**#7 - 2017-03-01 03:02 PM - Spencer Gardner**  
- Status changed from Closed to Reopened

I'm seeing a regression in this on 2.18.3 in Linux. There are no Zonal Statistics in the Raster menu, but the Processing routine seems to be having the same problem as described above. Is this a bad implementation in processing now? If so, I'll open a new bug.

**#8 - 2017-03-01 05:49 PM - Nyal Dawson**  
- Status changed from Reopened to Closed

Sounds like a different issue - processing doesn't reuse this library (until 3.0, when it does). You'll need to open a new issue against processing.

Files			
ZonalStat.zip	7.86 KB	2014-09-03	Marcel Foelsch
rast2.tif	193 KB	2014-10-05	Giovanni Manghi