QGIS Application - Bug report #4955
Wrong results, when calculated results are too long for DBF field

2012-02-07 01:37 AM - zirneklitis -

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Vectors			
Affected QGIS version:	master	**Regression?:**	No	
Operating System:		**Easy fix?:**	No	
Pull Request or Patch supplied:		**Resolution:**	duplicate	
Crashes QGIS or corrupts data:		**Copied to github as #:**	14750	

Description

This was tested both on 1.7.3 and 1.9.90.

A new field in a shape file was created with the field calculator (within 'Attribute table' window). An area of a polygon was calculated with $area. The returned value was absolutely wrong. It turns out that the field is too short for the result. But there were no warnings!!! Further experiments return following results:

Field type: N(10,0) Result: 727869376 — wrong result (N. B. – there are only 9 numbers)

Field type: N(11,0) Result: -2147483648 — wrong result (N. B. – the integer part of the result is 11 numbers)

Field type: N(13,1) Result: 65152378815,7 — correct result

Additional verification of field type and number should be introduce before writing out to shape file. I suppose this is similar problem to Bug #3500.

Related issues:

Duplicates QGIS Application - Bug report # 4766: Missing warnings when insert...	**Closed**	**2012-01-11**

History

#1 - 2012-04-09 04:57 AM - Giovanni Manghi

I can confirm this issue, it can indeed lead to further errors.

#2 - 2012-04-09 02:09 PM - alobo -

Actually, it's a problem of the field type:

If Precision = 0, even if field type has been set to Float

the result is wrong, Precision must be > 0,

I think that if Precision = 0, then the type is set to integer

(even if the user has selected float) and the results are wrong.

Field width=20, real and Precision=3 gives a correct result

Field width=20, real and Precision=0 gives a wrong result

Agus

#3 - 2012-04-10 02:38 AM - Giovanni Manghi

Nathan, I added you as watcher to this ticket as you worked in the field calculator. Not sure if you want/can do something about this issue, eventually just

remove your name from the list. Thanks.

#4 - 2012-09-04 12:08 PM - Paolo Cavallini

- Target version set to Version 2.0.0

#5 - 2012-12-30 09:51 AM - Giovanni Manghi

- Priority changed from High to Normal

#6 - 2014-05-06 02:38 AM - Giovanni Manghi

see also #10186

#7 - 2014-06-28 07:41 AM - Jürgen Fischer

- Target version changed from Version 2.0.0 to Future Release - Lower Priority

#8 - 2014-10-30 12:24 PM - Giovanni Manghi

- Resolution set to duplicate

- Status changed from Open to Closed

duplicate of #4766

Files

Latvia.7z	917 Bytes	2012-02-07	zirneklitis -