InfoVeg - Bug #2749

Soil errors in legacy data: Mg truncated

01/26/2007 11:34 AM - Michael Lee

Status:	New	**Start date:**	01/26/2007
Priority:	Normal	**Due date:**	
Assignee:	Forbes Boyle	**% Done:**	0%
Category:	ArchiveDB	**Estimated time:**	0.00 hour
Target version:	Unspecified	**Spent time:**	0.00 hour
Bugzilla-Id:	2749		

Description

Email from Bob 1/25/2007:

Elizabeth Marx discovered that soils for plot 20-7-340-8 have mg ppm as 2, which is inconsistent with the nature of the soils, to say nothing of the high percent bases associated with mg. I checked old files and this seems to have been there all along. Puzzled, I found the old printouts and discovered that throughout, the data contain only the rightmost 3 digits for Mg. A fourth digit is rare but does sometimes occur. In Elizabeth's case the value had been 2002 and just 002.

It should be possible to back calculate based on base saturation % to identify which records contain this left truncation error. I have no idea how many projects this is a problem for, so once we have the test, we should run it on all soils data in CVS.

Would you all please work this out for me.

History

#1 - 01/26/2007 11:34 AM - Michael Lee

Does this problem possibly apply to other fields besides Mg? What kind of range of Basal Saturation are we looking for, coupled with how low an Mg?

Do we need to consult with the original printouts anyway, as how would be know if "2" should be 2002 or 1002 or 3002?

#2 - 01/26/2007 11:34 AM - Michael Lee

From Bob's email 1/26/2007:

I have not yet gone back to check, but it could be that the way the the total exchangeable bases is derive is through calculation based on Ca, Mg, K etc, in which case given we know TEC we could calculate Mg. I leave this to Forbes to work out for now.

#3 - 09/30/2009 10:04 AM - Michael Lee

OLD ARCHIVE DATABASE, CVS_b2G.mdb (NCVSProto4.mdb derived, not from VegBank). I'm calling this 1.0.0 in Bugzilla.

#4 - 09/30/2009 12:38 PM - Michael Lee

This bug persists in the new archive database. Plot 20-7-430 still has Mg of 2 for one reading:

authorObsCode	EC	Mg_ppm	percent_Mg
020-07-0340	40.17	493	51.72
020-07-0340	25.52	280	74.45
020-07-0340	23.79	2	70.13
020-07-0340	34.96	436	81.9
020-07-0340	24.97	98	70.02

#5 - 03/27/2013 02:21 PM - Redmine Admin

Original Bugzilla ID was 2749