

Cc: Scott, Robert L. (DCH)
Subject: RE: Flint Testing and EBLs.xlsx

Hi Nancy,

I made a p-chart, which Shewhart's version of a control chart for proportions, for the data you sent. Basically, I used the monthly data from 2013-14 to create upper and lower control limits, then plotted the 2014-15 data in a run chart. It shows that the three months in question are the only ones that lie outside the control limit: in fact, they are the only points that lie well above the mean at all. This doesn't say anything about causality, but it does warrant further investigation.

There are several next steps we can employ if the folks upstairs ask us to look deeper into the data. Also, I'm not sure if you talked at all with the Environmental Health folks, but their toxicologists could probably help give us some context to the issue.

Cristin

From: Peeler, Nancy (DCH)
Sent: Monday, July 27, 2015 3:37 PM
To: McKane, Patricia (DCH)
Cc: Larder, Cristin (DCH); Scott, Robert L. (DCH)
Subject: Re: Flint Testing and EBLs.xlsx

Thanks, Patti. I'm looking forward to hearing about your CollN meeting. I'm sure you will be bringing great information back.

Sent from my iPhone

On Jul 27, 2015, at 3:11 PM, "McKane, Patricia (DCH)" <McKaneP@michigan.gov> wrote:

Thanks Nancy.
 I was in a session on Shewart charts for QI. I think this might be a good approach for the needs assessment. We can talk more. Hopefully the slides will be available, because I can't type that much with my thumbs

Sent from my iPhone

On Jul 27, 2015, at 1:14 PM, Peeler, Nancy (DCH) <PeelerN@michigan.gov> wrote:

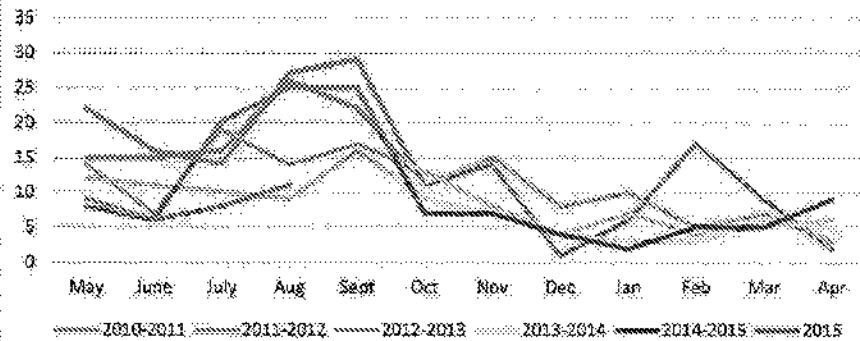
Hi Cristin and Patti--

This is the CLPPP data for Flint that I had mentioned to you last week. Cristin, can you quickly run any tests to see if the difference in the first graph is statistically significant? Bob is at his desk today, best to connect with him if you have questions about the data. We are hoping to send this up today, so we appreciate anything you can do to get us a response this afternoon, if at all possible. Many thanks!

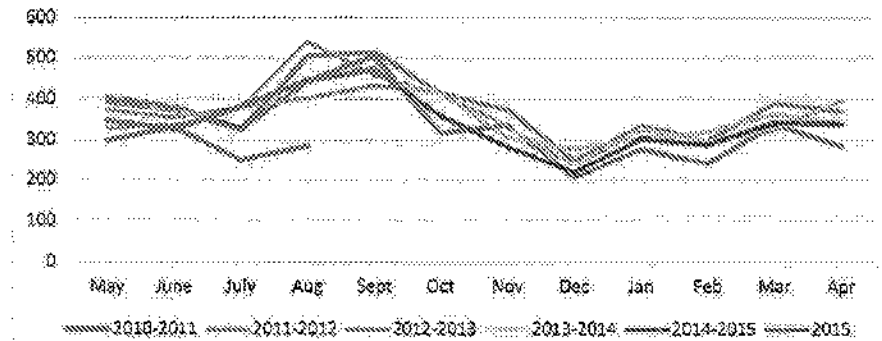
Nancy

<Flint Testing and EBLs.xlsx>

City of Flint, Children less than 16 years of age
with First-Time Elevated Blood Lead Levels*



City of Flint, Children less than 16 years of age
Tested for Lead Poisoning:



*Children whose address is listed as "Flint"—may not conform exactly to Flint city limits
 Less than 16 years of age at time of test
 Includes only first-time blood lead levels ≥ 5 ug/dL
 Includes sample type of venous, capillary or unknown

September 23, 2015

Source: MDHHS Data Warehouse, Lead Specimen table