nla2007_&_2012_data_for_farnaz_may2017

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May 9, 2017

To Do

- insult of the day: thou dissembling rude-growing apple-john

Introduction

- This document (nla2007_&_2012_data_for_farnaz_may2017) describes how a subset of the 2007 and 2012 National Lake Assessment data were assembled and processed.
- The raw data are available on the NARS website: https://www.epa.gov/national-aquatic-resource-surveys
- These data were processed and harmonized. See the following documents for more information:
  - nla2007_waterchem
  - nla2012_waterchem
  - nla_sites-and-nla_samples
- The output includes the following datasets:
  - farnaz201705.csv
  - farnaz201705_meta.csv

Data Notes

- Decide whether or not to keep duplicate samples (. . . $duplicate==‘D’)
- Decide whether or not to keep samples from . . . $visit_no=2

Data Steps

- read in the raw data and data definitions (see: https://github.com/willbmisled/lakes_database/tree/master/output)
  - ‘nla2007_chem.csv’
  - ‘nla2012_chem.csv’
  - ‘nla_chem_data_defintions.csv’
  - ‘nla_chem_parameters.csv’
  - ‘nla_sites.csv’
  - ‘nla_sites_meta.csv’
  - ‘nla_samples.csv’
  - ‘nla_samples_meta.csv’
- spread chem2007 and chem2012 based on uid, duplicate, parameter, and result then row_bind
- merge sites, sample, and chem data
- select fields to include and reorder
- The final dataset and the data definitions saved as:
  - “farnaz201705.csv”
  - “farnaz201705_meta.csv”