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#
# Begin METADATA documentation
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#
# METADATA Data Description:
#
#   Filename: Appendix5a.txt
#
#   The data provided herein are the water-quality data discussed in
#
#   U.S. Geological Survey Scientific Investigations Report 2009-5062, Sources and Preparation of Data
#   for Assessing Trends in Concentrations of Pesticides in Streams of the United States, 1992-2006
#   URL http://pubs.usgs.gov/sir/2009/5062/
#
#   Concentrations of 44 pesticides and 8 degradates measured in 17,696 water samples from
#   201 stream-water sites are provided in this tab-delimited ASCII file.
#
#   NOTE: ALL samples are provided in this file, NOT JUST THOSE SELECTED FOR TREND ANALYSIS!
#         Keep only those samples where attribute trend = "KEEP" to obtain the samples selected for
#         trend analysis. This file provides data for 16,869 samples selected for trend analysis
#         (trend = "KEEP") and for 827 samples rejected for trend analysis (trend = "DROP").
#
#   NOTE: This is a "row" format data file. Each row contains information about one pesticide measured
#         in one sample.
#
#   This data file contains 823,613 rows of data (excludes rows of METADATA comments, 1 row of
#   attribute labels, and 1 row of field descriptions).
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#
# METADATA Basic documentation of data set elements:
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#
# Data Attributes:
#
#      pstaid      15S
#      trend       5S
#      suid        4s
#      dates       8D
#      times       4S
#      dectime     9N
#      year        9N
#      month       9N
#      day         9N
#      sched       9S
#      pcode       6S
#      plname      25S
#      rem_org     1S
#      val_org     9N
#      url         1S
#      maxltmdl    9N
#      rem_rnd     1S
#      val_rnd     9N
#      rrl_rnd     1S
#      rem_adj     1S
#      val_adj     9N
#      rrl_adj     1S
#      p_recov     9N
#      sname       63s
#
#
#      Note: The row in the data file that follows the row of attribute labels describes the
#            width of the field and the data type. S or s indicates a text attribute,
#            D or d indicates a date attribute, and N or n indicates a numeric attribute.
#            For example: 15s indicates a 0- to 15-character text attribute whereas
#            9N indicates a 0- to 9-digit numeric attribute. Attribute labels may be longer
#            than the width of the field.
#
#
#      Attribute label: pstaid
#
#      Attribute description: U.S. Geological Survey (USGS) site identification number.
#
#      Note: pstaid is the "parent" site identification number. At some sites, the actual
#            location of sample collection (at the "child" site identification number)

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may have changed during the period of sample collection, but the sites
are considered equivalent.
#

Attribute label: trend
#

Attribute description: Sample selection code for trend analysis.
#

#	Code	Description
#	----	-----
#	KEEP	Sample selected for trend analysis
#	DROP	Sample rejected for trend analysis

Attribute label: suid
#

Attribute description: National Stream Quality Accounting Network (NASQAN) (suid = nasq) or
National Water-Quality Assessment Program (NAWQA) Study Unit identifier.
#

#	Code	Description
#	----	-----
#	acad	Acadian-Pontchartrain Drainages
#	acfb	Apalachicola-Chattahoochee-Flint River Basin
#	albe	Albemarle-Pamlico Drainage Basin
#	ccyk	Central Columbia Plateau-Yakima River Basin
#	cnbr	Central Nebraska Basins
#	conn	Connecticut, Housatonic, and Thames River Basins
#	delr	Delaware River Basin
#	eiwa	Eastern Iowa Basins
#	gafl	Georgia-Florida Coastal Plain
#	grsl	Great Salt Lake Basins
#	hdsn	Hudson River Basin
#	leri	Lake Erie-Lake Saint Clair Drainages
#	linj	Long Island-New Jersey Coastal Drainages
#	lirb	Lower Illinois River Basin
#	lsus	Lower Susquehanna River Basin
#	mise	Mississippi Embayment
#	mobl	Mobile River Basin
#	nasq	NASQAN
#	necb	New England Coastal Basins
#	nvbr	Las Vegas Valley Area and Carson and Truckee River Basins
#	ozrk	Ozark Plateaus
#	podl	Potomac River Basin and Delmarva Peninsula

#	pugt	Puget Sound Basin
#	redn	Red River of the North Basin
#	riog	Rio Grande Valley
#	sacr	Sacramento River Basin
#	sana	Santa Ana Basin
#	sanj	San Joaquin-Tulare Basins
#	sant	Santee River Basin and Coastal Drainages
#	sctx	South-Central Texas
#	sofl	Southern Florida
#	splt	South Platte River Basin
#	tenn	Tennessee River Basin
#	trin	Trinity River Basin
#	ucol	Upper Colorado River Basin
#	uirb	Upper Illinois River Basin
#	umis	Upper Mississippi River Basin
#	usnk	Upper Snake River Basin
#	whmi	White, Great Miami, and Little Miami River Basins
#	will	Willamette Basin
#	wmic	Western Lake Michigan Drainages
#	yell	Yellowstone River Basin

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#
# Attribute description: Month of sample.
#
#
# Attribute label: day
#
# Attribute description: Day of sample.
#
#
# Attribute label: sched
#
# Attribute description: Analytical schedule (analytical method and suite of pesticides) used
#                       to measure pesticides.
#

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Code	Description
-----	-----
NWQL2001	NWQL schedule 2001
NWQL2003	NWQL schedule 2003
NWQL2010	NWQL schedule 2010
NWQL2033	NWQL schedule 2033

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#
# Attribute label: pcode
#
# Attribute description: Parameter code. The 5-digit number used to identify variables
#                       in the USGS National Water Information System.
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#
# Attribute label: plname
#
# Attribute description: Common name of the pesticide or degradate.
#

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#
# Attribute label: rem_org
#
# Attribute description: Remark code associated with val_org. The original remark
#                       code as provided by NAWQA and NASQAN data managers.
#

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Code	Description
-----	-----
<	Not Detected. Concentration reported as less than val_org.
>	Detected. Concentration reported as greater than val_org. Only two measurements of deethylatrazine have rem_org = ">".
(blank)	Detected. Concentration reported as val_org.

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#           E           Detected. Concentration is estimated as val_org.
#           Estimated concentration may result from any of the following reasons:
#           1. The compound is characterized as a "poor performer" in the method on the
#              basis of laboratory QC samples. In general compounds with less than 60 %
#              recovery, greater than 120 % recovery, or greater than 25 % relative standard
#              deviation of recovery are considered poor performers. All detections of
#              these compounds are remarked E.
#           2. The compound was detected at a concentration less than the reporting level
#              or less than the lowest calibration standard.
#           3. The sample was diluted to bring the concentration into the calibration range.
#
#
# Attribute label: val_org
#
# Attribute description: Concentration of the pesticide, in micrograms per liter. The original
#                        value as provided by NAWQA and NASQAN data managers. DO NOT use this
#                        value for trend analysis. It is provided only to document data preparation
#                        for trend analysis.
#
#
# Attribute label: url
#
# Attribute description: Reporting level code for val_org
#
#           Code      Description
#           ----      -
#           Y          Nondetection at a raised reporting level or at an unusually low reporting level
#           N          Nondetection at a routine reporting level
#           D          Detection
#
#
# Attribute label: maxltmdl
#
# Attribute description: The maximum value of the Long-Term Method Detection Level for 1994-2006,
#                        in micrograms per liter. Routine nondetections (val_org) were reassigned
#                        (val_rnd) to maxltmdl. It is anticipated that maxltmdl will be used to
#                        censor low-level detections of pesticides for some types of trend
#                        analysis approaches.
#
#
# Attribute label: rem_rnd
#
# Attribute description: Remark code associated with val_rnd.

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#
#       Code      Description
#       -----
#       <         Not Detected. Concentration less than val_rnd.
#       >         Detected. Concentration greater than val_rnd. Only two measurements
#                 of deethylatrazine have rem_rnd = ">".
#       (blank)   Detected. Concentration is val_rnd.
#
#
# Attribute label: val_rnd
#
# Attribute description: Rounded and (for routine nondetections) reassigned concentration of the
#                         pesticide, in micrograms per liter. Original concentrations (val_org) were
#                         rounded to a uniform precision dependent on the magnitude of the
#                         concentration. Thirty very low-level detections (less than 0.0005 ug/L)
#                         rounded to 0.000 ug/L and these were set to routine nondetections
#                         at maxltmdl. The concentration value of all routine nondetections
#                         was reassigned to maxltmdl.
#
#
# Attribute label: rrl_rnd
#
# Attribute description: Reporting level code for val_rnd
#
#       Code      Description
#       -----
#       Y         Nondetection at a raised reporting level
#       N         Nondetection at a routine reporting level at maxltmdl
#       D         Detection
#
#
# Attribute label: rem_adj
#
# Attribute description: Remark code associated with val_adj.
#
#       Code      Description
#       -----
#       <         Not Detected. Concentration less than val_adj.
#       >         Detected. Concentration greater than val_adj. Only two measurements
#                 of deethylatrazine have rem_adj = ">".
#       (blank)   Detected. Concentration is val_adj.
#
#
# Note: rem_adj equals rem_rnd for all samples.

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#
#
# Attribute label: val_adj
#
# Attribute description: Recovery-adjusted concentration of the pesticide, in micrograms per liter.
#                         Rounded and reassigned concentrations (val_rnd) were adjusted for temporal
#                         changes in analytical recovery as follows: Detected concentrations (rrl_rnd = D)
#                         were adjusted for recovery. Nondetected concentrations at raised
#                         reporting levels (rrl_rnd = Y) were adjusted for recovery. Nondetected
#                         concentrations at routine reporting levels (rrl_rnd = N) were NOT adjusted
#                         for recovery.
#
#                         Concentration was adjusted as: val_adj = val_rnd / (p_recov x 0.01).
#
#                         Adjusted concentrations were rounded to the same precision as was done
#                         for val_rnd. No adjusted concentrations rounded to 0.000. Some nondetections
#                         at raised reporting levels were downward adjusted to concentrations less
#                         than or equal to maxltmdl. These recovery-adjusted nondetections were
#                         changed to routine nondetections at maxltmdl.
#
# Attribute label: rrl_adj
#
# Attribute description: Reporting level code for val_adj
#
#
# Code      Description
# ----      -
# Y          Nondetection at a raised reporting level
# N          Nondetection at a routine reporting level at maxltmdl
# D          Detection
#
#
# Attribute label: p_recov
#
# Attribute description: Recovery adjustment factor, in percent. Temporal changes in analytical
#                         recovery were modelled by fitting a lowess smooth (10 percent window)
#                         to a timeseries plot of recovery versus date for 1,231 stream water
#                         matrix spikes. Modelled recovery for any given day was used as the
#                         recovery adjustment factor for pesticide samples collected on that day.
#
#
# Attribute label: sname
#
# Attribute description: Name of the stream-water site (pstaidd)

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#  
# End METADATA documentation
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