

Database Code: CF006

Title: Storm nutrient dynamics at Andrews Experimental Forest stream gages, 2001 to 2003

Abstract:

This study examines headwater stream nutrients at stream gaging sites during selected storms in the Andrews Experimental Forest. High frequency storm sampling was conducted to examine flow path dynamics, basin characteristics, seasonal trends, and differing responses and mobility among analytes on streamwater nutrient concentrations and fluxes.

Keywords: Carbon; Nitrogen; Phosphorus; Storms; Water chemistry; Inorganic nutrients; water chemistry; storms; inorganic nutrients; carbon; nitrogen; phosphorus;

Date data commenced: 2001-05-14

Date data terminated: 2003-11-22

Principal Investigator: Sherri L. Johnson

List of Entities:

- 1. Storm sampling nutrient and flow data from the H.J.A. 2001-2003.

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Storm sampling nutrient and flow data from the H.J.A. 2001-2003. Includes: PO4, TotalP, TotalN, NO3NO2, NH3N, DON, DOC and discharge.

Attribute List:

DBC CODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(1,0)	range	1.0000	1.0000	number
SITE CODE	Y	N	char(6)	place			
DATE_TIME	Y	N	datetime	range	5/14/2001 11/22/2003 1:30:00 PM 4:15:00 AM		YYYY-MM-DD hh:mm:ss
PO4P	N	Y	numeric(4,3)	range	0.0000	0.4790	mg/l
PO4P CODE	N	Y	char(1)	enum			
TDP	N	Y	numeric(4,3)	range	0.0000	0.5100	mg/l
TDP CODE	N	Y	char(1)	enum			
TDN	N	Y	numeric(3,2)	range	0.0000	0.2500	mg/l
TDN CODE	N	Y	char(1)	enum			
NO3N	N	Y	numeric(4,3)	range	0.0000	0.3070	mg/l
NO3N CODE	N	Y	char(1)	enum			
NH3N	N	Y	numeric(4,3)	range	0.0000	0.0590	mg/l
NH3N CODE	N	Y	char(1)	enum			
DON	N	Y	numeric(4,3)	range	0.0000	0.1400	mg/l
DON CODE	N	Y	char(1)	enum			
DOC	N	Y	numeric(3,2)	range	0.0000	8.5000	mg/l
DOC CODE	N	Y	char(1)	enum			
DISCHARGE_CFS	N	N	numeric(4,3)	range	0.0010	3.9910	cfs

DISCHARGE_LPS N N numeric(6,3) range 0.0000 113.0132 l/sec

Attributes Definitions:

DATE_TIME

Date and time of sample

DBCODE

Database Code

DISCHARGE_CFS

Discharge measured in cfs

DISCHARGE_LPS

CFS discharge converted to l/s

DOC

Dissolved organic carbon concentration; method: combustion

DOCCODE

Dissolved organic carbon concentration value qualifier code

DON

Dissolved organic nitrogen - not measured analytically; mathematically determined by subtracting NH3-N and NO3-N from Total dissolved nitrogen

DONCODE

Dissolved organic nitrogen concentration value qualifier code

ENTITY

Entity number

NH3N

Ammonia-nitrogen (NH3-N) concentration, ammonia as nitrogen; method: automated phenate

NH3NCODE

Ammonia-nitrogen (NH3-N) concentration value qualifier code

NO3N

Nitrate-nitrogen (NO3-N), nitrate + nitrite as nitrogen concentration; method: automated cadmium reduction

NO3NCODE

Nitrate-nitrogen (NO3-N) concentration value qualifier code

PO4P

Ortho phosphorus concentration, soluble reactive phosphorus, phosphate (PO4-P); method: ascorbic acid finish

PO4PCODE

Phosphate (PO4-P) concentration value qualifier code

SITECODE

Watershed sampled

TDN

Total dissolved nitrogen concentraton (filtered sample); method: persulfate digestion and analysis by automated colorimetric analysis; instrument: Technicon Auto-Analyzer II

TDNCODE

Total dissolved nitrogen concentration value qualifier code

TDP

Total dissolved phosphorus concentration; method: persulfate/H2SO4 digestion, ascorbic acid finish

TDPCODE

Total dissolved phosphorus concentration value qualifier code

Enumerated Domains:

Enumerated Domain for Attribute: DBCODE

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Enumerated Domain for Attribute: DOCCODE

Value is good

N No analysis conducted

Enumerated Domain for Attribute: DONCODE

Value is good

N No analysis conducted

Enumerated Domain for Attribute: NH3NCODE

Value is good

N No analysis conducted

* Value is below detection limit for analysis

Enumerated Domain for Attribute: NO3NCODE

Value is good

N No analysis conducted

* Value is below detection limit for analysis

Enumerated Domain for Attribute: PO4PCODE

Value is good

N No analysis conducted

Enumerated Domain for Attribute: TDNCODE

Value is good

N No analysis conducted

* Value is below detection limit for analysis

Enumerated Domain for Attribute: TDPCODE

Value is good

N No analysis conducted