

National Atmospheric Deposition Program Ammonia Monitoring Network (AMoN)

Description of Data:
Radiello Type Passive Samplers
Individual Replicate Values

Field	Data Type	Description
NADPID	Text	Unique NADP identifier of individual sample sets consisting of one or more sample replicates and a travel blank deployed together
SITEID	Text	Two-letter location designator followed by a two digit number
REPLICATE	Text	Sample replicate (A, B, C) or travel blank (T)
STARTDATE	Date/Time	Start date and time of sample exposure, GMT
ENDDATE	Date/Time	End date and time of sample exposure, GMT
EXPTIME	Numeric (0)	Sample exposure time, minutes
AIRVOL	Numeric (0.00)	Sample volume, m ³
EXTRACTVOL	Numeric (0.00)	Filter extract solution volume, mL
NH4	Numeric (0.000)	Measured ammonium ion concentration of filter extract, in mg/L of solution as NH ₄ ⁺ ; missing values are indicated by -9
CONC	Numeric (0.00)	Gaseous ammonia concentration, µg/m ³ ; missing values are indicated by -9
QR	Text	Quality Rating Code: A: valid data B: valid data with minor problems C: invalid data
NOTES	Text	Sample notes flags; see next page
CHNGDATE	Date/Time	Most recent date and time any data values were edited within the NADPID set

AMoN Notes and Quality Rating Codes

AMoN Sample Condition Codes		
Notes	Description	QR Code¹
a	Incomplete laboratory analysis	C
c	Contaminated sample (local source of ammonia (within ~500m), based on site operator comments)	B
d	For T samples “d” indicates value < lab method detection limit (mg/L NH ₄) For A, B and C samples “d” indicates value < network method detection limit (mg/L NH ₄)	B
e	Extended sampling period >360 hrs. (15 days)	B
f	Field protocol error (sample integrity compromised or extended field hold time)	C
h	Sample handling issue (sample handling issue in field, shipping, or laboratory)	B
l	Laboratory error (major handling problems in lab)	C
m	Missing data	B
n	No sampler deployed	C
q	Minor quality control issue	B
s	Short sampling period < 312 hours (13 days)	No change
t	Elevated travel blank concentration (>0.2 mg/L NH ₄) (elevated travel blank conc. should be considered when utilizing the associated ambient sampler data)	B
y	Delayed sample processing (>21 days from OFF date to analysis date)	B

¹Quality Rating (QR) Code Definitions:

- A** – Valid data
- B** – Valid data with minor issues
- C** – Invalid data

AMoN Sample Condition Codes (updates starting 1/1/2022)		
Notes	Description	QR Code¹
e	Extended sampling period >720 hrs. (30 days)	C
f	Field protocol error (one or more condition may apply) <ul style="list-style-type: none"> - Serious problems in field operations that compromise sample integrity - Sample receipt > 60 days after OFF date 	C
¹ <u>Quality Rating (QR) Code Definitions:</u> A – Valid data B – Valid data with minor issues C – Invalid data		

AMoN Method Detection Limits (MDL)

Sample ID Range	Year of Sample Receipt	AMoN Network MDL (MDL_N) mg/L NH₄	AMoN Lab MDL (MDL_L) mg/L NH₄
All Prior to N18005002	<6/2018	0.0469	0.0469
N18005002 – N18006407	>6/2018	0.119	0.008
N19000001 – N19002669	2019	0.104	0.016
N2000001 – N20002856	2020	0.083	0.013
N2100001 – N21003101	2021	0.070	0.010
N22000001 - present	2022	0.080	0.010