

**National Atmospheric Deposition Program - Mercury Deposition Network (MDN)
MDN Data Fields**

Field	Data Type	Description
siteID	Text	Site Identifier – 2 letter state or province designator followed by 2 digit number
dateOn	Date/Time	Date the sample was installed on the collector, reported in Greenwich Mean Time (GMT)YYYY-MM-DD hh:mm format
dateOff	Date/Time	Date the sample was removed from the collector, reported in Greenwich Mean Time (GMT)YYYY-MM-DD hh:mm format
yrmonth	Date	Year and Month of sample midpoint, in YYYYMM format Indicated the year and month at the midpoint of the sample. Used for determining which samples to use to compute annual and seasonal aggregates.
sampletype	Text	W: wet sample, measurable precipitation (> 0.01 in.) on the rain gauge (RG) or net bottle catch (BC) > 1.7 mL if RG data are missing. D: dry sample - the RG measured a 0 precipitation amount net, or if the RG is missing, the BC < 1.7 mL T: trace sample, used when the rain gage detects that an unmeasurable amount of precipitation occurred. (Trace samples no longer noted after 2018. Currently designated as type 'W' with note of 'v', or type 'D') --: unknown sample type. Precipitation amount is unknown.
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
rgPpt	Decimal	Precipitation amount as measured by the rain gage in millimeters. Missing amounts are indicated by a -9. A value of -7 indicates a trace amount.
sVol	Decimal	Sample Volume, ml. Missing amounts are indicated by a -9
subppt	Decimal	Rain gage precipitation amount, if available, in mm. If the rain gage value (RGPPT) is missing, the precipitation amount in mm is calculated from the net sample volume caught in the sample bottle. A value of 0.127 is inserted for Trace sample types. Missing amounts are indicated by a -9
HgConc	Decimal	Total mercury concentration reported by the lab in ng/L. Missing amounts are indicated by a -9
HgDep	Decimal	Total mercury deposition, ng/m2. The product of SUBPPT and HGCONC. Missing amounts are indicated by a -9
datemod	Date/Time	Date the record was last modified
sampleID	Char(8)	Sample Identifier
collection_period	Integer	The collection period in weeks (1 or 2) that the site is officially observing for the calendar year of samples. Sites may only modify this annually with specific agreement with the NADP PO.

Notes	Description	QR Code ¹	Applies to Sampling Period		
			1996 – 2021	2022 – 2025	2026+
b	Bulk Sample (sample exposed the whole time)	C	X	X	X
c	Contaminated sample	C	X	X	X
d	Visible debris in sample	B	X	X	X
e	Extended Sampling period (>194 hrs)	B	X		
e	Extended Sampling period (>360 hrs – 1 week protocol)	C		X	X
e	Extended Sampling period (>504 hrs – 2 week protocol)	C			X
f	Field protocol error – Serious problems in field operations that compromise sample integrity	C	X		
f	Field protocol error <ul style="list-style-type: none"> - Serious problems in field operations that compromise sample integrity - Sample receipt > 60 days after OFF date 	C		X	X
h	Sample handling issue (one or more conditions may apply) <ul style="list-style-type: none"> - Sample receipt between 16-30 days after dateoff - Bottle or Bag leak - Bag Open 	B	X		
h	Sample handling issue <ul style="list-style-type: none"> - Handling contamination in the field - Significant leakage upon receipt in the lab OR - Extended sampling/field/lab hold times <ul style="list-style-type: none"> o Sampling period > 194 hrs/8 days, 2hrs and ≤ 360 hrs/15days o Sample receipt > 16 days and ≤ 60 days after OFF date o Lab analysis > 60 days from BrCl preservation 	B		X	
h	Sample handling issue <ul style="list-style-type: none"> - Handling contamination in the field - Significant leakage upon receipt in the lab OR - Extended sampling/field/lab hold times <ul style="list-style-type: none"> o Sampling period > 194 hrs/8 days, 2hrs and ≤ 360 hrs/15days (Not applied for sites following the 2 week collection protocol) o Sample receipt > 16 days and ≤ 60 days after OFF date o Lab analysis > 60 days from BrCl preservation 	B			X
i	Low volume sample (1.5ml ≤ sample volume ≤ 10ml)	B	X	X	
i	Low volume sample (1.7ml ≤ sample volume ≤ 10ml)	B			X
l	Laboratory error	C	X	X	X
m	Missing precip or MOF data	B	X	X	X
n	Sample receipt > 30 days after OFF date, or not received.	C	X		
n	No sample received	C		X	X

Notes	Description	QR Code ¹	Applies to Sampling Period		
			1996 – 2021	2022 – 2025	2026+
p	Precipitation value unknown – no precipitation data from rain gauge or alternate source.	C	X	X	X
q	Minor quality control issue (Starting in 2019)*	B	*	X	X
u	Undefined sample – sample exposed for at least 6 hours without precipitation.	C	X	X	X
v	Precipitation amount indicates sufficient sample for analysis, but insufficient sample in bottle. (undercatch; sample volume < 1.5ml or sample volume is < 10% of rain gauge precipitation amount)	C	X	X	
v	Precipitation amount indicates sufficient sample for analysis, but insufficient sample in bottle. (undercatch; sample volume < 1.7ml or sample volume is < 10% of rain gauge precipitation amount)	C			X
z	Site operation issue – temp extremes beyond 32 and 120 deg F, or minor issues with sensor or motobox	B	X	X	X
¹Quality Rating (QR) Code Definitions: A – Valid data B – Valid data with minor issues C – Invalid data					