

462905112035401 MCBEATH RESIDENCE NEAR CLANCY, MT (MT07)

(National trends network)

LOCATION.--Lat 46°29'05", long 112°03'54" (NAD 27), in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.2, T.8 N., R.4 W., Jefferson County, Hydrologic Unit 10030101, at National Forest boundary fence at private residence on Lump Gulch Road, 5.1 mi west of Clancy and 10 mi south of Helena.

PERIOD OF RECORD.--Water years 1981-1982, 1984 to current year. Prior to Oct. 1984, published as 462905112034001.

EQUIPMENT.--The sample collector is an Aerochem Metrics Model 301 precipitation collector. An automatic sensor detects occurrences of precipitation, activating a motor which removes a cover from the wetfall collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessel is polyethylene and has a collection diameter of 28.6 cm and a capacity of 13 liters. Precipitation is measured using a Belfort Universal rain gage, series 5-780 with an event recorder. (The use of the brand name in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.) Snowfall precipitation is measured as a water equivalent.

REMARKS.--Missing precipitation data for Oct. 31-Nov. 4, Nov. 22-24, and Jan. 26-27 due to equipment problems resulting from freezing air temperatures.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	0.00	0.14	<0.01	0.20	0.56	0.00	0.00	0.15	0.00	0.00
2	0.00	---	0.08	0.15	0.00	0.03	0.03	0.00	<0.01	0.00	0.07	0.04
3	0.00	---	0.01	0.00	0.00	0.00	0.00	0.00	<0.01	0.24	0.30	0.00
4	0.00	---	0.00	e0.13	0.07	<0.01	0.00	<0.01	0.00	0.13	<0.01	0.00
5	0.00	0.00	0.00	e0.02	0.02	0.20	0.00	0.00	<0.01	0.04	0.04	0.00
6	0.00	0.00	0.03	e0.00	0.00	0.00	0.00	0.00	<0.01	0.00	<0.01	0.00
7	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.00	0.00
8	<0.01	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.21	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.01	0.25	0.00	0.01	0.00	0.00	0.00
10	0.01	0.00	0.11	0.00	0.04	0.13	0.00	<0.01	0.60	<0.01	0.00	0.00
11	0.00	0.22	0.03	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
12	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
13	0.00	0.00	0.04	0.00	0.00	0.10	<0.01	0.00	<0.01	<0.01	0.00	0.07
14	0.00	0.00	0.07	0.00	0.00	<0.01	<0.01	0.00	0.00	0.00	0.00	0.04
15	0.06	0.00	0.00	0.00	0.00	0.04	<0.01	0.00	0.00	0.05	0.00	<0.01
16	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.20	<0.01	0.00	0.05	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.38	0.00	0.01	0.01	0.23
19	0.00	0.09	0.00	0.00	0.00	0.07	<0.01	0.07	0.02	0.00	0.00	0.37
20	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.59	0.03	0.02	<0.01	0.60
21	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.53	<0.01	0.00	0.00	<0.01
22	0.00	---	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.30	0.00
23	0.00	---	0.00	0.00	0.00	<0.01	0.00	0.66	<0.00	0.00	0.93	0.00
24	0.00	---	0.00	0.16	<0.01	0.03	0.00	0.01	0.00	0.00	0.08	0.00
25	0.00	0.00	<0.01	0.09	<0.01	<0.01	0.00	0.00	0.31	0.00	0.16	0.00
26	0.00	0.07	0.15	---	0.00	0.02	0.00	0.04	0.00	0.00	0.07	0.00
27	0.00	0.00	0.00	---	0.00	0.00	0.00	0.06	0.24	0.00	0.00	0.00
28	0.22	0.00	0.00	0.00	0.00	0.00	0.78	0.09	0.00	0.00	0.00	0.00
29	0.19	0.00	0.23	0.00	0.10	0.00	0.00	0.00	<0.00	0.00	0.00	0.00
30	0.21	0.00	<0.01	0.05	---	0.00	0.00	0.00	0.10	0.00	0.00	0.00
31	---	---	<0.01	0.00	---	0.01	---	0.03	---	0.00	0.00	---
TOTAL	---	---	0.82	---	0.26	0.88	2.26	3.28	1.59	0.67	2.04	1.56
MEAN	---	---	0.03	---	0.01	0.03	0.08	0.11	0.05	0.02	0.07	0.05
MAX	---	---	0.23	---	0.10	0.20	0.78	0.66	0.60	0.24	0.93	0.60
MIN	---	---	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

e--Estimated.

QUANTITY AND QUALITY OF PRECIPITATION, PRICKLY PEAR CREEK BASIN  
462905112035401 MCBEATH RESIDENCE NEAR CLANCY, MT (MT07)—Continued

## WATER-QUALITY DATA

PERIOD OF RECORD.--Water years 1981-1982, 1984 to current year.

REMARKS.--Samples from this site were analyzed by the Illinois Water Survey Laboratory in Champaign, Illinois. Chemical data are available through the internet at <http://nadp.sws.uiuc.edu/sites/sitemap.asp?net=NTN&state=MT07>.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(WEEKLY COMPOSITE SAMPLES)

Date	Precipitation total for defined period, inches (00193)	pH, wet atm dep unfltrd field, std units (83106)	pH, wet atm dep unfltrd lab, std units (83107)	Specif. conductance, wet dep unfltrd field, uS/cm (83154)	Specif. conductance, wet dep unfltrd lab, uS/cm (83156)	Calcium wet atm dep fltrd, mg/L (82932)	Magnesium, wet atm dep fltrd, mg/L (83002)	Potassium, wet atm dep fltrd, mg/L (83120)	Sodium, wet atm dep fltrd, mg/L (83138)	Chloride, wet atm dep fltrd, mg/L (82944)	Sulfate wet atm dep fltrd, mg/L (83160)	Ammonia wet atm dep fltrd, as NH <sub>4</sub> mg/L (83047)	Nitrate wet atm dep fltrd, mg/L (83071)
SEP 30													
OCT 7	.00	--	--	--	--	--	--	--	--	--	--	--	--
OCT 07-14	.05	5.08	5.96	13.4	5.2	.14	.02	.023	.055	.10	.32	.360	.62
OCT 14-21	.06	4.91	5.45	26.3	3.0	.06	.008	.014	.007	.02	.11	.030	.24
OCT 21-28	.00	--	--	--	--	--	--	--	--	--	--	--	--
OCT 28-NOV 04	.77	5.19	5.54	15.6	1.7	.02	<.003	.008	<.003	.01	<.01	<.020	.06
NOV 04-11	.02	--	5.62	--	2.6	.11	.011	.011	.015	<.02	.11	<.070	.33
NOV 11-18	.20	5.32	5.47	8.8	2.5	.04	.005	.009	.003	.00	.07	<.020	.10
NOV 18-25	.17	6.79	7.11	22.6	19.9	.45	.031	.264	3.575	.72	1.02	<.020	.37
NOV 25-DEC 02	.15	5.08	5.20	7.8	4.1	.04	.003	.01	.011	.02	.17	.030	.31
DEC 02-09	.08	5.14	5.35	4.7	4.7	.06	.004	.013	.023	.03	.13	.110	.45
DEC 09-16	.25	5.26	5.21	2.8	4.4	.04	.006	.006	.005	<.01	.04	.050	.40
DEC 16-23	.00	--	--	--	--	--	--	--	--	--	--	--	--
DEC 23-30	.38	4.77	5.24	7.8	3.8	.04	.003	.003	.005	.02	.05	.020	.41
DEC 30-JAN 06	.44	4.98	5.08	6.6	5.0	.04	.004	.006	.003	<.01	.10	.040	.66
JAN 06-13	.00	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13-20	.00	--	--	--	--	--	--	--	--	--	--	--	--
JAN 20-27	.05	5.10	5.32	4.6	4.4	.03	<.003	.005	.004	<.01	.13	.150	.63
JAN 27-FEB 03	.25	5.31	5.46	9.2	4.0	.04	.004	.009	.008	.01	.08	.080	.18
FEB 03-10	.09	5.25	5.27	11.1	3.9	.04	.003	.003	.007	<.01	.09	.080	.44
FEB 10-17	.04	5.32	5.60	6.4	4.9	.09	.01	.013	.027	.03	.37	.290	.53
FEB 17-24	.00	--	--	--	--	--	--	--	--	--	--	--	--
FEB 24-MAR 02	.30	5.33	5.34	7.6	4.3	.03	<.003	.004	.009	.02	.25	.220	.64
MAR 02-09	.23	5.50	5.40	5.2	2.9	.05	.005	.009	.007	.01	.16	.060	.22
MAR 09-16	.28	5.43	5.44	9.9	4.1	.06	.007	.012	.014	.03	.22	.210	.59
MAR 16-23	.07	--	--	--	--	--	--	--	--	--	--	--	--
MAR 23-30	.05	--	5.70	17.5	4.8	.15	.012	.025	.149	.04	.35	.250	.42
MAR 30-APR 06	.60	--	6.47	17.8	11.3	.57	.047	.033	.336	.13	1.02	.680	1.23
APR 06-13	.65	--	--	--	--	--	--	--	--	--	--	--	--
APR 13-20	.02	--	--	--	--	--	--	--	--	--	--	--	--
APR 20-27	.16	6.22	5.69	3.2	3.6	.12	.009	.006	.023	.03	.28	.180	.32
APR 27-MAY 04	.78	5.39	6.08	6.0	3.4	.25	.029	.06	.022	.03	.32	.070	.31

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Precipitation total for defined period, inches (00193)	pH, wet atm dep unfltrd field, std units (83106)	pH, wet atm dep unfltrd lab, std units (83107)	Specif. conductance, wet dep unfltrd field, uS/cm (83154)	Specif. conductance, wet dep unfltrd lab, uS/cm (83156)	Calcium wet atm dep fltrd, mg/L (82932)	Magnesium, wet atm dep fltrd, mg/L (83002)	Potassium, wet atm dep fltrd, mg/L (83120)	Sodium, wet atm dep fltrd, mg/L (83138)	Chloride, wet atm dep fltrd, mg/L (82944)	Sulfate wet atm dep fltrd, mg/L (83160)	Ammonia wet atm dep fltrd, mg/L as NH4 (83047)	Nitrate wet atm dep fltrd, mg/L (83071)
MAY 04-11	.05	--	6.76	--	14.1	1.19	.074	.062	.211	.28	1.04	.710	1.19
MAY 11-18	.28	5.64	6.28	8.0	5.9	.19	.018	.014	.022	.05	.55	.440	.68
MAY 18-25	2.71	--	5.36	7.0	4.0	.08	.010	.006	.009	.02	.30	.150	.42
MAY 25-JUN 01	.22	5.03	5.22	6.1	4.1	.05	.004	.007	.004	.02	.24	.100	.33
JUN 01-08	.21	5.39	6.09	7.9	6.3	.28	.027	.033	.103	.09	.63	.340	.78
JUN 08-15	.61	5.41	6.25	5.3	3.6	.19	.017	.009	.024	.05	.19	.070	.34
JUN 15-22	.05	4.70	5.47	16.7	7.9	.43	.056	.080	.021	.09	.63	.160	1.34
JUN 22-29	.55	5.03	5.09	8.4	6.7	.16	.016	.032	.009	.04	.43	.170	.65
JUN 29-JUL 06	.66	4.89	4.88	8.7	8.3	.18	.028	.138	.043	.07	.51	.040	.75
JUL 06-13	.01	--	5.44	--	11.3	.30	.043	.245	.096	.21	.74	.560	1.21
JUL 13-20	.08	5.14	5.28	13.6	11.0	.63	.076	.134	.060	.12	.88	.250	1.79
JUL 20-27	.00	--	--	--	--	--	--	--	--	--	--	--	--
JUL 27-AUG 03	.07	5.05	6.98	34.6	19.6	1.66	.151	.144	.333	.55	1.48	.840	2.71
AUG 03-10	.34	5.49	5.61	8.8	6.7	.26	.026	.033	.060	.10	.52	.290	1.10
AUG 10-17	.05	4.28	5.02	36.9	15.3	.40	.045	.027	.020	.13	1.13	.770	2.24
AUG 17-24	1.24	--	5.33	6.2	3.5	.05	.005	.009	.019	.02	.17	.060	.28
AUG 24-31	.31	5.22	5.26	3.7	2.9	.02	<.003	.003	<.003	.01	.08	<.020	.16
AUG 31-SEP 07	.04	--	5.31	--	5.3	.09	.008	.016	.191	.07	.17	<.020	.52
SEP 07-14	.30	4.84	5.09	9.4	5.5	.06	.007	.011	.026	.03	.29	.030	.48
SEP 14-21	1.20	5.75	6.23	6.5	4.1	.39	.03	.013	.075	.10	.27	.030	.44
SEP 21-28	.00	--	--	--	--	--	--	--	--	--	--	--	--
SEP 28-OCT 05	.02	--	5.72	--	22.2	1.19	.19	.175	.643	.16	3.17	.670	3.65



482958109475101 NORTHERN MONTANA AGRICULTURAL RESEARCH CENTER NEAR HAVRE, MT (MT98)—Continued

WATER-QUALITY DATA

PERIOD OF RECORD.--Water years 1986 to current year.

REMARKS.--Samples from this site were analyzed by the Illinois Water Survey Laboratory in Champaign, Illinois. Chemical data are available through the internet at <http://nadp.sws.uiuc.edu/sites/sitemap.asp?net=NTN&state=MT07>.

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(WEEKLY COMPOSITE SAMPLES)

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SEP 30													
Oct 7	.00	--	--	--	--	--	--	--	--	--	--	--	--
OCT 07-14	<.01	--	7.00	--	22.3	.84	.092	.180	1.375	.44	1.02	.390	1.96
OCT 14-21	.04	--	5.27	--	8.0	.19	.026	.005	.024	.05	.90	.360	.94
OCT 21-28	.04	--	--	--	--	--	--	--	--	--	--	--	--
OCT 28-NOV 04	.88	5.15	5.37	4.1	3.3	.03	.006	.008	.003	.01	.14	.090	.41
NOV 04-11	.00	--	--	--	--	--	--	--	--	--	--	--	--
NOV 11-18	.03	--	5.13	--	6.6	.06	<.016	<.016	.068	<.03	.50	.200	.61
NOV 18-25	.18	--	--	--	--	--	--	--	--	--	--	--	--
NOV 25-DEC 02	.01	--	--	--	--	--	--	--	--	--	--	--	--
DEC 02-09	.04	--	5.67	--	4.5	.11	<.015	<.015	<.015	<.03	<.05	.250	1.08
DEC 09-16	.03	--	5.68	--	3.2	.09	.012	<.009	.009	.04	.12	.130	.33
DEC 16-23	.00	--	--	--	--	--	--	--	--	--	--	--	--
DEC 23-30	.83	5.53	5.59	2.6	3.0	.05	.007	.005	.005	.02	.09	.110	.42
DEC 30-JAN 06	.19	--	5.37	--	3.6	.05	.007	.006	.008	.02	.11	.060	.43
JAN 06-13	<.01	--	5.07	--	9.8	--	--	--	--	--	--	--	--
JAN 13-20	.07	5.11	5.24	5.2	5.3	.04	.005	.003	.008	.02	.35	.130	.51
JAN 20-27	.14	5.21	5.23	3.9	4.8	.06	.009	.006	.009	.01	.21	.040	.37
JAN 27-FEB 03	.13	--	--	--	--	--	--	--	--	--	--	--	--
FEB 03-10	<.01	--	5.39	--	6.3	.11	.012	.012	.019	<.02	.47	.280	.72
FEB 10-17	.00	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17-24	.00	--	--	--	--	--	--	--	--	--	--	--	--
FEB 24-MAR 02	.14	4.76	5.13	--	8.2	.09	.009	.008	.022	.06	.76	.400	1.13
MAR 02-09	.00	--	--	--	--	--	--	--	--	--	--	--	--
MAR 09-16	.00	--	--	--	--	--	--	--	--	--	--	--	--
MAR 16-23	.00	--	--	--	--	--	--	--	--	--	--	--	--
MAR 23-30	.05	6.70	7.00	28.1	26.7	1.38	.147	.109	.613	.29	2.99	1.53	3.74
MAR 30-APR 06	.53	5.96	6.50	5.8	6.4	.26	.027	.018	.090	.07	.44	.410	.67
APR 06-13	.00	--	--	--	--	--	--	--	--	--	--	--	--
APR 13-20	.21	5.98	6.14	7.8	7.9	.13	.020	.020	.023	.03	.88	.760	1.18
APR 20-27	.00	--	--	--	--	--	--	--	--	--	--	--	--
APR 27-MAY 04	.21	5.81	5.98	3.0	3.1	.10	.017	.034	.011	.03	.19	.180	.38



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