

2014 April Weather Summary
Central Agricultural Research Center
Moccasin, Montana
By: Jeffrey R. Olson

FACTOR		Record	2014	2013	Ave
Precipitation (inches)					
Total			0.64	0.68	1.20 ^{1/}
Crop Year	(Sept-April)		9.35	3.29	6.33 ^{1/}
Annual	(Jan-April)		3.27	1.26	2.91 ^{1/}
Record High	(1920)	5.37			
Record Low	(1942)	0.08			
Snowfall			2.8	7.0	8.0 ^{2/}
Snowfall Crop Year	(Sept-April)		74.4	37.6	60.4 ^{2/}
Record Snowfall	(1970)	31.0			
Temperature (° F)					
Low	(April 14)		1	5	
High	(April 9)		70	72	
Average			38.0	37.0	40.8 ^{3/}
Average Maximum			54.4	51.0	49.8 ^{3/}
Average Minimum			21.5	23.0	29.7 ^{3/}
Record Mean High	(1949)	62.9			
Record Mean Low	(1975)	20.5			
Record Low	(April 1, 1936)	-18.0			
Wind					
Average speed mph			7.5	7	
Days w/gust >30mph			12d	12d	
Total miles			5374	4994	

The month of April had a large accumulation of cold temperatures and windy days. The average minimum temperature was only 1 degree above the record low in 1975 (21.5 - 2014 compared to 20.5 – 2013). There were a total of 12 days where the wind was in excess of 30 mph and the highest recorded wind speed was 41.72 mph on April 18th. The total precipitation was roughly half of the 105 year average, while the snowfall was about a third of the 53 year average. The crop year (Sept-Apr) precipitation is still 3 inches above the 105 year average as of the end of April.

^{1/} 105 years of precipitation

^{2/} 53 years of snowfall records

^{3/} 103 years of temperature records

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Date	Air temp			Water	temp		Evap	Wind	Precip	Snow	Snow	GDU
	Max	Min	Mean	Max	Min	Mean	(inch)	(mph)	(inch)	Fall	Accum	
1	37	21	29.0	46.4	33.8	40.1	0.09	11.7				0
2	39	22	30.5	47.5	33.6	40.6	0.09	4.7				0
3	45	15	30.0	51.8	35.2	43.5	0.01	3.2	0.05	1	1.0	0
4	48	24	36.0	53.6	35.6	44.6	0.01	5.2				0
5	54	26	40.0	51.3	37.9	44.6	0.14	5.9				0
6	53	30	41.5	59.4	37.9	48.7	0.20	6.9				1.5
7	50	27	38.5	59.4	37.9	48.7	0.03	5.8	0.06			0
8	62	33	47.5	58.5	39.0	48.8	0.20	6.7				7.5
9	70	25	47.5	63.5	41.7	52.6	0.26	7.2				7.5
10	58	30	44.0	58.3	39.9	49.1	0.25	7.9				4
11	62	30	46.0	64.4	40.6	52.5	0.18	6.4				6
12	64	31	47.5	64.4	40.0	52.2	0.12	8.8				7.5
13	34	7	20.5	35.9		35.9	0.11	10.9	0.02	1.5	1.5	0
14	39	1	20.0	34.9		34.9	0.11	6.5				0
15	56	13	34.5	53.6	34.9	44.3	0.12	6.9				0
16	55	10	32.5	48.4	33.1	40.8	0.12	8.6	0.03	0.25	0.25	0
17	45	28	36.5	54.9	32.2	43.6	0.00	7.0	0.05			0
18	54	17	35.5	42.1		42.1	0.06	4.6				0
19	57	26	41.5	49.6	33.3	41.5	0.10	7.1				1.5
20	64	35	49.5	67.5	33.8	50.7	0.10	4.1				9.5
21	64	8	36.0	50.0	34.9	42.5	0.10	10.1				0
22	68	25	46.5	67.1	35.1	51.1	0.33	6.4				6.5
23	73	20	46.5	66.2	38.5	52.4	0.00	11.1	0.38			6.5
24	53	12	32.5	57.6	36.3	47.0	0.23	9.6				0
25	57	19	38.0	52.0	37.8	44.9	0.11	4.9				0
26	45	32	38.5				0.02	7.5				0
27	61	30	45.5	63.9	33.8	48.9	0.02	8.5	0.05	Trace	Trace	5.5
28	55	13	34.0	60.8	36.7	48.8	0.28	6.7				0
29	54	16	35.0	54.5	36.0	45.3	0.27	11.5				0
30	57	19	38.0	54.3	34.9	44.6	0.27	11.5				0
Mean												
TOTAL	54.4	21.5	38.0				3.93	7.5	0.64	2.75		63.5