

CURRENT DATE: 3/4/2013 4:26 PM
DATE OF STORAGE: 3/1/2013RESERVOIRS BY BASIN

	Maximum Capacity	Max Usable	Current Usable	Current Storage	Percent Capacity	Percent Usable Capacity	Storage Deficit	Last Year February EOM	February EOM Ave 92-12
Mission Valley									
TABOR	23483	23,483	594	594	3%	3%	22889	2724	1196
MISSION	8135	7,372	391	1,154	14%	5%	6981	2422	1591
McDONALD	8165	8,165	594	594	7%	7%	7571	628	947
KICKING HORSE	7190	6,410	3,220	4,000	56%	50%	3190	3610	3730
NINEPIPE	14872	14,036	2,295	3,131	21%	16%	11741	9227	5264
PABLO	28400	27,990	11,436	11,846	42%	41%	16554	11733	10945
TWIN	899	899	312	312	35%	35%	587	398	224
	91144	88,355	18,842	21,631	24%	Total Deficit	69,513	30742	23897
<u>Moiese (Mission Valley)</u>									
LOWER CROW*	803	1	62	865	108%	na	(62)	2039	6200
			62			Total Deficit	(62)		
<u>Jocko Valley</u>									
BLACK LAKE**	2583	2,533	0	0	0%	0%	2,583	0	0
LOWER JOCKO LAKE	6380	6,380	0	0	0%	0%	6,380	0	0
	8963	8913	0	0	0%	Total Deficit	8963		
<u>Camas - LBR - Ashley</u>									
LITTLE BITTERROOT	26400	24500	18100	20000	76%	74%	6400	15300	10035
HUBBART	12120	12093	6880	6907	57%	57%	5213	9030	4857
UPPER DRY FORK	2810	2397	590	1003	36%	25%	1807	777	1332
LOWER DRY FORK	4090	3224	481	1117	29%	15%	2973	1117	1416
	45420	42214	26051	29027	64%	Total Deficit	9373	26224	17640

CAMAS

MISSION

JOCKO

	Little Bitterroot Lake	Hubbart	Upper Dry Fork	Lower Dry Fork	Tabor	Mission	McDonald	KickingHorse	NinePipe	Crow	Pablo	Twin	Black Lake	Lower Jocko
Feb-93	10850	4297	1344	1234	1400	744	750	2775	1960	6832	11431	30	0	0
Feb-94	8800	7360	1718	1572	6082	2181	350	4820	10822	7680	7200	113	0	0
Feb-95	5800	2867	1032	1765	0	1283	0	2773	2485	8788	13227	100	0	0
Feb-96	9400	8600	2939	3608	2255	1874	2800	2310	11102	7335	14500	360	0	0
Feb-97	20700	9005	799	1765	1160	2080	150	3820	6016	7300	11100	50	0	0
Feb-98	20150	10556	1508	1453	794	808	245	5775	8241	8638	11738	96	0	0
Feb-99	23549	8448	1125	1812	380	705	215	3410	3749	8579	9660	233	0	0
Feb-00	21422	3408	1569	2432	319	954	0	2444	2721	8967	12665	227	0	0
Feb-01	14600	2312	1549	979	125	2454	393	1862	7014	9847	13458	199	0	0
Feb-02	6700	2900	1047	765	0	1036	0	2895	2630	8695	13330	148	0	0
Feb-03	8125	5806	1696	1394	350	876	417	2770	2590	8911	11846	167	0	0
Feb-04	4600	1670	671	752	250	918	335	2110	2627	6783	12398	110	0	0
Feb-05	3000	804	671	842	4317	3636	5008	8320	8913	9518	0	159	0	0
Feb-06	4200	1682	740	765	0	1154	820	5450	2200	3910	11628	519	0	0
Feb-07	6400	4700	2020	1008	0	980	335	4375	2170	2210	12530	351	0	0
Feb-08	3250	2346	585	752	152	895	370	2460	2526	2370	6071	253	0	0
Feb-09	3750	2828	1830	1355	840	3998	5133	6590	6016	1770	10715	412	0	0
Feb-10	5300	3500	1000	950	518	980	385	2815	2127	2411	9938	215	28	48
Feb-11	4800	5013	2020	2000	2255	1836	605	3215	10142	1400	13725	333	0	0
Feb-12	15300	9030	777	1117	2724	2422	628	3610	9227	2039	11733	398	0	6
Feb-13	20000	6907	777	1117	594	1154	594	4000	3131	865	11846	312	0	0
Average	10509	4954	1306	1402	1167	1570	930	3743	5162	5946	10988	228	1	3
Max	23549	10556	2939	3608	6082	3998	5133	8320	11102	9847	14500	519	28	48
Min	3000	804	585	752	0	705	0	1862	1960	865	0	30	0	0

AVERAGES: 23792 Mission
18171 Camas
4 Jocko

Date: 3/13/13 9:00 AM

SNOTEL SUMMARY

Green: Mission Valley
 Orange: Jocko Valley
 Blue: Camas - Little Bitterroot

Station Number	Site Name	Elevation (Feet)	Years of Record	Snow Water Equivalent (SWE)							Precipitation, Cumulative to Date					
				Snow Depth (In)	Average	Current	Last Month**	Last Year	% of Last Year	% of Average*	Average	Current	Last Month	Last Year	% of Last Year	% of Average*
667	North Fork Jocko***	6330	90 - 12	100.0	37.3	34.8	25.6	36.2	96.1	93.2	42.4	46.6	38.2	44.2	105.4	109.9
646	Moss Peak	6780	88 - 12	93.0	33.0	31.2	24.0	32.0	97.5	94.6	31.9	34.1	27.7	34.5	96.8	107.1
562	Kraft Creek	4750	81 - 12	32.0	12.2	10.1	7.3	14.9	67.8	82.6	23.0	23.8	20.2	23.0	103.5	103.6
346	Bisson Creek	4920	93 - 12	20.0	8.9	5.8	4.9	9.4	61.7	65.5	14.8	14.1	12.4	15.7	89.8	95.0
901	Stuart Mountain	7400	95 - 12	78.0	28.7	26.9	21.2	28.5	94.4	93.6	28.7	28.6	24.1	28.9	99.0	99.8
783	Sleeping Woman	6150	92 - 12	39.0	14.3	11.0	8.7	16.8	65.5	77.0	18.5	20.9	18.2	21.6	96.8	113.0
1190	Bassoo Lookout	5150	12 - 13									14.4		11.5	125.2	
1165	Ashley Divide	4820	11 - 13									10.6		9.3	114.0	
510	Hand Creek	5035	79 - 12	27.0	10.2	7.4	5.9	9.6	77.1	72.5	14.4	15.1	13.0	15.4	98.1	104.5

Notes: * Percent of average is determined for individual stations for the SNOTEL years of record only.
 ** Last Month as recorded on this summary is the data from 30 days previous to the current date.
 *** North Fork Jocko Snotel used for Mission and Jocko Valley Forecast

SNOW COURSE SUMMARY

Station Number	Site Name	Elevation (Feet)	Years of Record	Snow Water Equivalent (SWE)						
				Last Measured	Snow Depth (In)	SWE	Last Year	Average	% of Last Year	% of Average
13B04	Fatty Creek	5500	61 - 12	3/2/13	55	16.3	19.0	17.4		93.7
13B01	Trinkus Lake	6100	49 - 12	3/2/13	97	33.6	34.0	32.4		103.7
13B05	Upper Holland	6200	48 - 12	3/2/13	71	24.1	22.6	26.0		92.7
14A19	Ashley Divide	4820	81 - 12	2/26/13	15	2.4	5.0	5.3		45.3
14A20	Ashley Lake	4000	81 - 12	Discontinued						
14B03	Bassoo Peak	5150	61 - 12	3/7/13	25	7.0	8.0	7.6		92.1
14A09	Griffin Cr Divide	5150	60 - 12	3/7/13	27	7.3	7.3	8.1		90.1
14A18	Truman Creek	4060	81 - 12	2/27/13	13	2.9	5.2	4.0		72.5
14B01	TV Mountain	6800	56 - 12	Discontinued						

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FIIP BASIN SUMMARIES

The Flathead Indian Irrigation Project Basin Summaries include the Mission Valley, Jocko Valley, and Camas. The summary includes the current snowpack, the surface water supply index, and the NRCS Montana State Basin Outlook Report 50 percent chance of exceeding stream runoff predictions for the stream applicable to each basin.

MISSION VALLEY

Snowpack conditions are 89% of average and 88% of last year. The surface water supply index suggests conditions are moderately dry, -2.8. The April - July runoff predictions for Mission Creek and South Crow Creek are 25000 ac-ft and 9800 ac-ft, respectively. Current reservoir storage is 24% of capacity with 21,631 acre-feet total and 18,842 acre-feet usable. The February EOM storage average is 23897. Last year February EOM was 30742.

Snow Water Equivalent (SWE)

Station Number	Site Name	Elevation (Feet)	Years of Record	Snow		SWE	Last Year	Average	% of Last Year	% of Average
				Date Measured	Depth (in)					
646	Moss Peak	6780	88 - 12	03/13/13	93	31.2	32.0	33.0	98	95
667	North Fork Jocko***	6330	90 - 12	03/13/13	100	34.8	36.2	37.3	96	93
562	Kraft Creek	4750	81 - 12	03/13/13	32	10.1	14.9	12.2	68	83
346	Bisson Creek	4920	93 - 12	03/13/13	20	5.8	9.4	8.9	62	66
13B04	Fatty Creek	5500	61 - 12	3/2/13	55	16.3	19.0	17.4	86	
13B01	Trinkus Lake	6100	49 - 12	3/2/13	97	33.6	34.0	32.4	99	104
13B05	Upper Holland	6200	48 - 12	3/2/13	71	24.1	22.6	26.0	107	93
				All Stations		155.9	168.1	167.2	88	89
				Moss, NFJ, Kraft, Bisson		81.9	92.5	91.4	81	84
				Moss, NFJ Only		66.0	68.2	70.3	96.8	94

Mission Creek above Mission Reservoir

	Prediction	Average	Actual	Remain
April - July	25000	25000		25000
April - September	29000	30000		29000

South Crow Creek above Pablo Feeder

April - July	9800	10100		9800
April - September	11200	11600		11200

WY TYPE: Near Normal Precip, Slightly High Temp

April 1 Total Water Availability Prediction

Mission Range Runoff	108400
North Fork Tabor Diversion	24500
Middle Fork Jocko Diversion	4000
Current Usable Storage	18842
Flathead Pumping Plant	30000
	185742

JOCKO VALLEY

Snowpack conditions for the Jocko Valley are 88% of average and 85% of last year. Surface Water Supply Index unavailable, however, generally conditions are moderately dry. The April - July runoff predictions for South Fork Jocko and North Fork Jocko are 29000 ac-ft and 29000 ac-ft, respectively. Current reservoir storage is 0% capacity with 0 acre-feet usable storage. The February EOM storage average is 0. Last year February EOM was 0.

Snow Water Equivalent (SWE)

Station Number	Site Name	Elevation (Feet)	Years of Record	Snow		SWE	Last Year	Average	% of Last Year	% of Average
				Date Measured	Depth (in)					
667	North Fork Jocko***	6330	90 - 12	no report	100	34.8	36.2	37.3	96	93
901	Stuart Mountain	7400	95 - 12	no report	78	26.9	28.5	28.7	94	94
14B01	TV Mountain	6800	56 - 12	Discontinued						
783	Sleeping Woman	6150	92 - 12	no report	39	11.0	16.8	14.29	65	77
All Stations						72.7	81.5	80.4	85	88
North Fork, Stuart, Sleeping Woman						72.7	81.5	80.4	85	88

South Fork Jocko River near Arlee, MT

	Prediction	Average	Actual	Remain
April - July	29000	33000		29000
April - September	33000	37000		33000

North Fork Jocko River below Tabor Feeder

	Prediction	Average	Actual	Remain
April - July	29000	31000		29000
April - September	30000	32000		30000

CAMAS - LITTLEBITTERROOT - ASHLEY

Snowpack conditions for the Camas - Littlebitterroot are 75% of average and 74% of last year. The Surface Water Supply Index suggests conditions are moderately dry, -2.4. The April - July runoff prediction for Mill Creek near Niarada is 3100 ac-ft. Current reservoir storage is 64% of capacity with 29,027 acre-feet total and 26,051 acre-feet usable. The February EOM average storage is 17640. Last year February EOM was 26224.

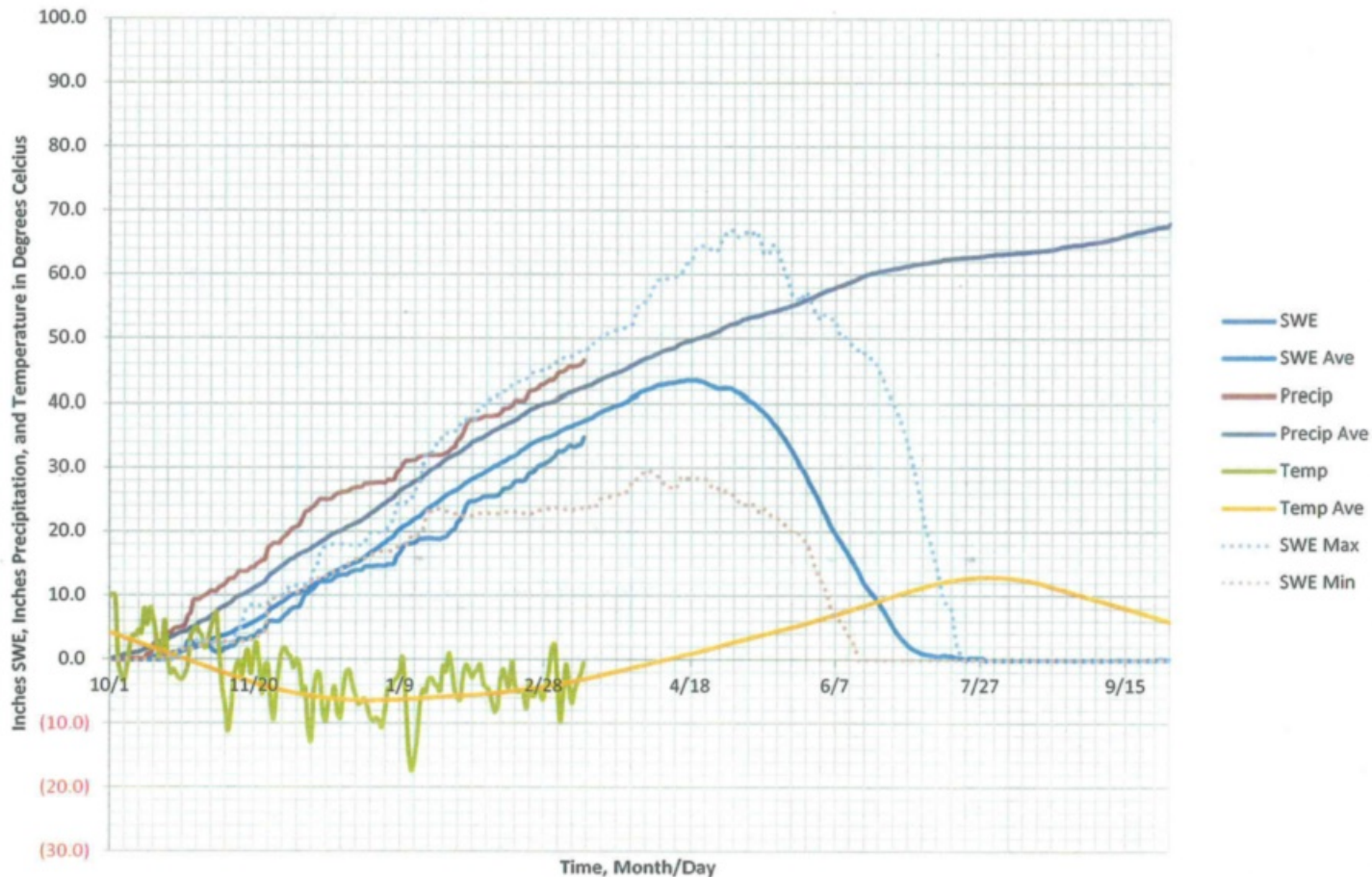
Snow Water Equivalent (SWE)

Station Number	Site Name	Elevation (Feet)	Years of Record	Snow		Last Year	Average	% of Last Year	% of Average
				Date Measured	Depth (in)				
510	Hand Creek	5035	79 - 12	03/13/13	27	7.4	9.6	10.2	77
14B03	Bassoo Peak	5150	61 - 12	03/07/13	25	7	8	7.6	88
14A19	Ashley Divide	4820	81 - 12	02/26/13	15	2.4	5.0	5.3	48
14A20	Ashley Lake	4000	81 - 12	Discontinued					
14A09	Griffin Cr Divide	5150	60 - 12	03/07/13	27	7.3	7.3	8.1	100
14A18	Truman Creek	4060	81 - 12	02/27/13	13	2.9	5.2	4	56
				All stations	27.0	35.1	35.2	74	75
				Hand Creek	7.4	9.6	10.2	77	73

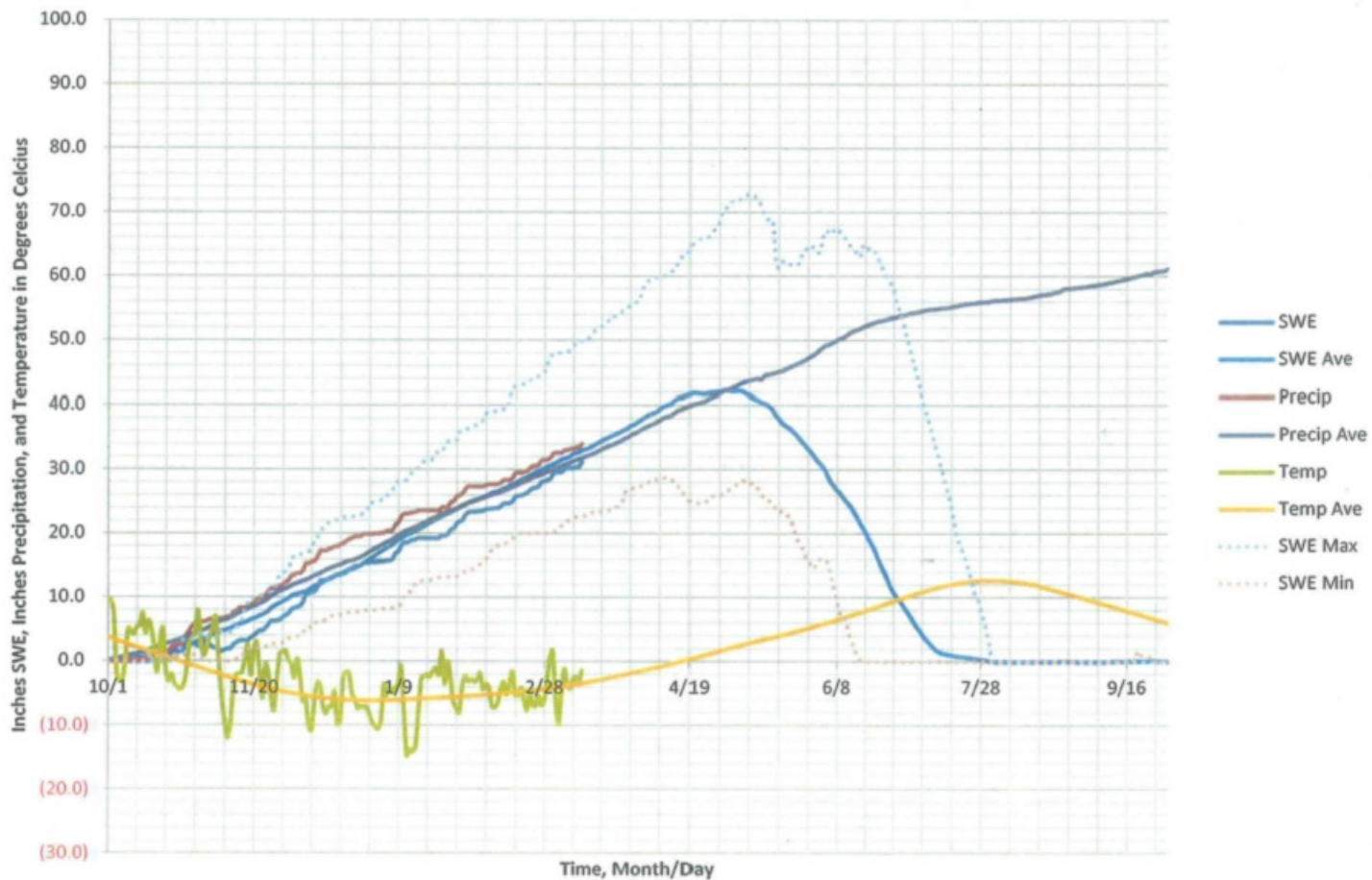
Mill Creek near Niarada

	Prediction	Average	Actual	Remain
April - July	3100	4000		3100
April - September	3400	4400		3400

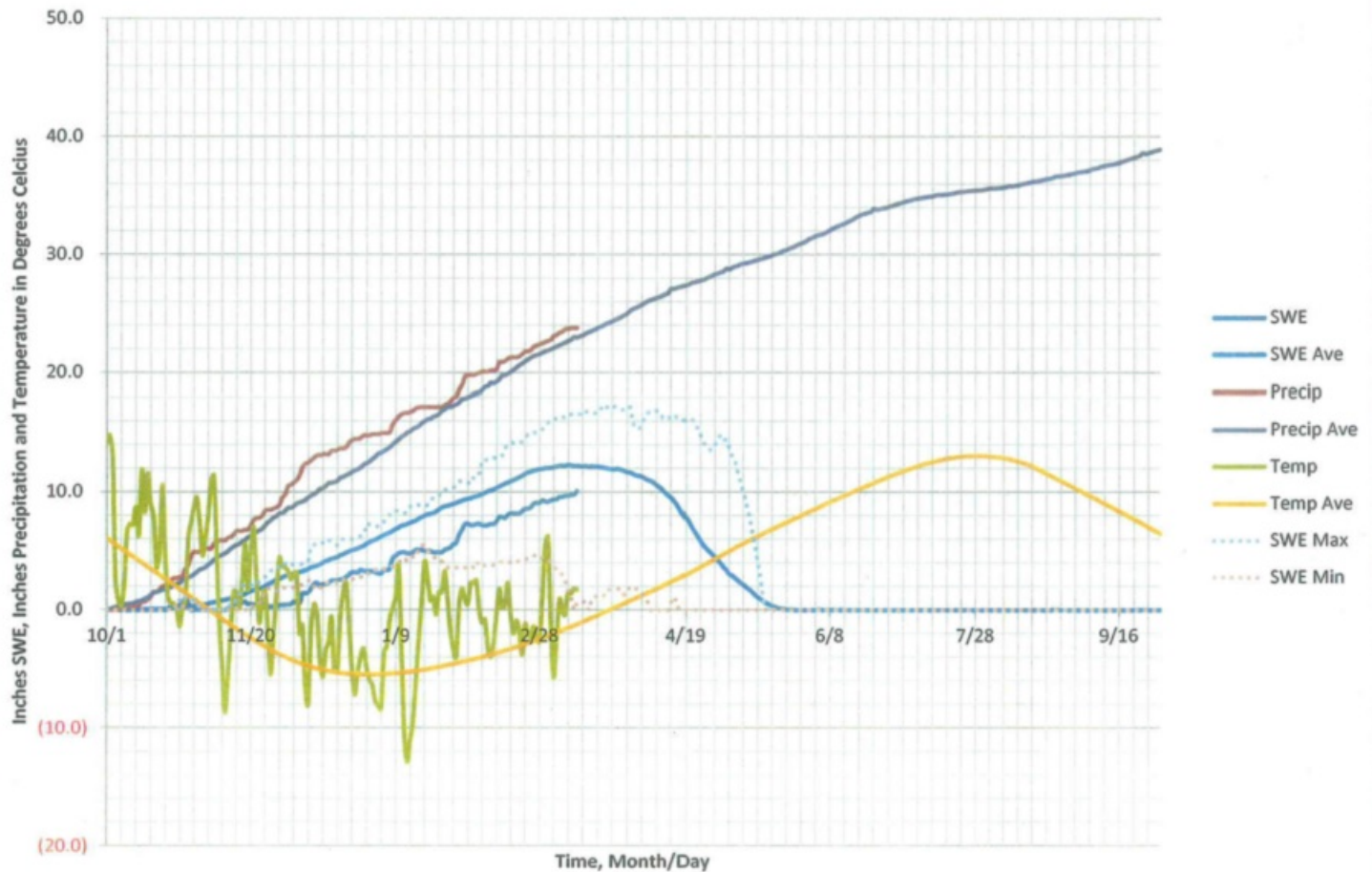
North Fork Jocko Snotel, NRCS (667), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



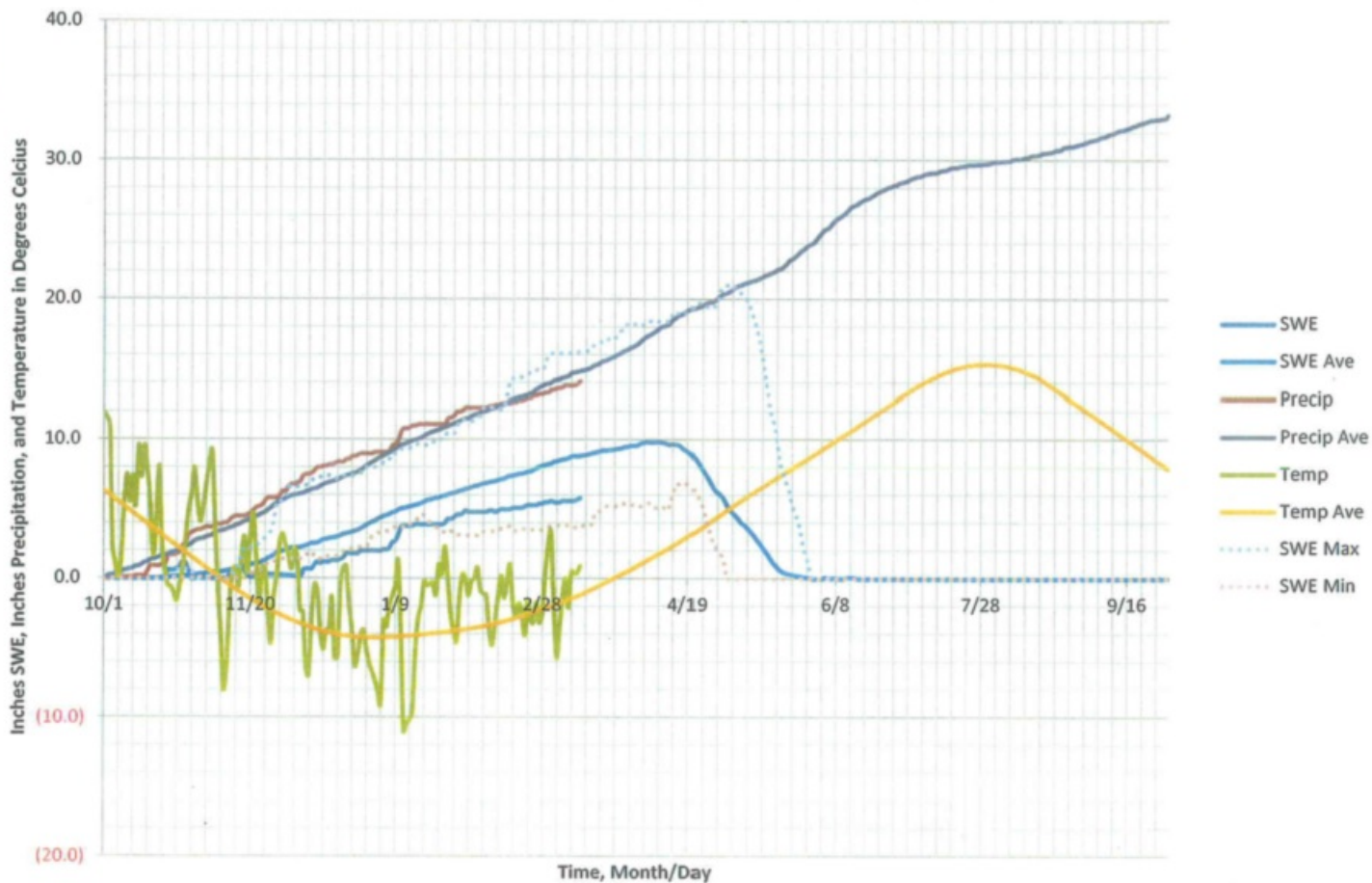
Moss Peak Snotel, NRCS (646), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



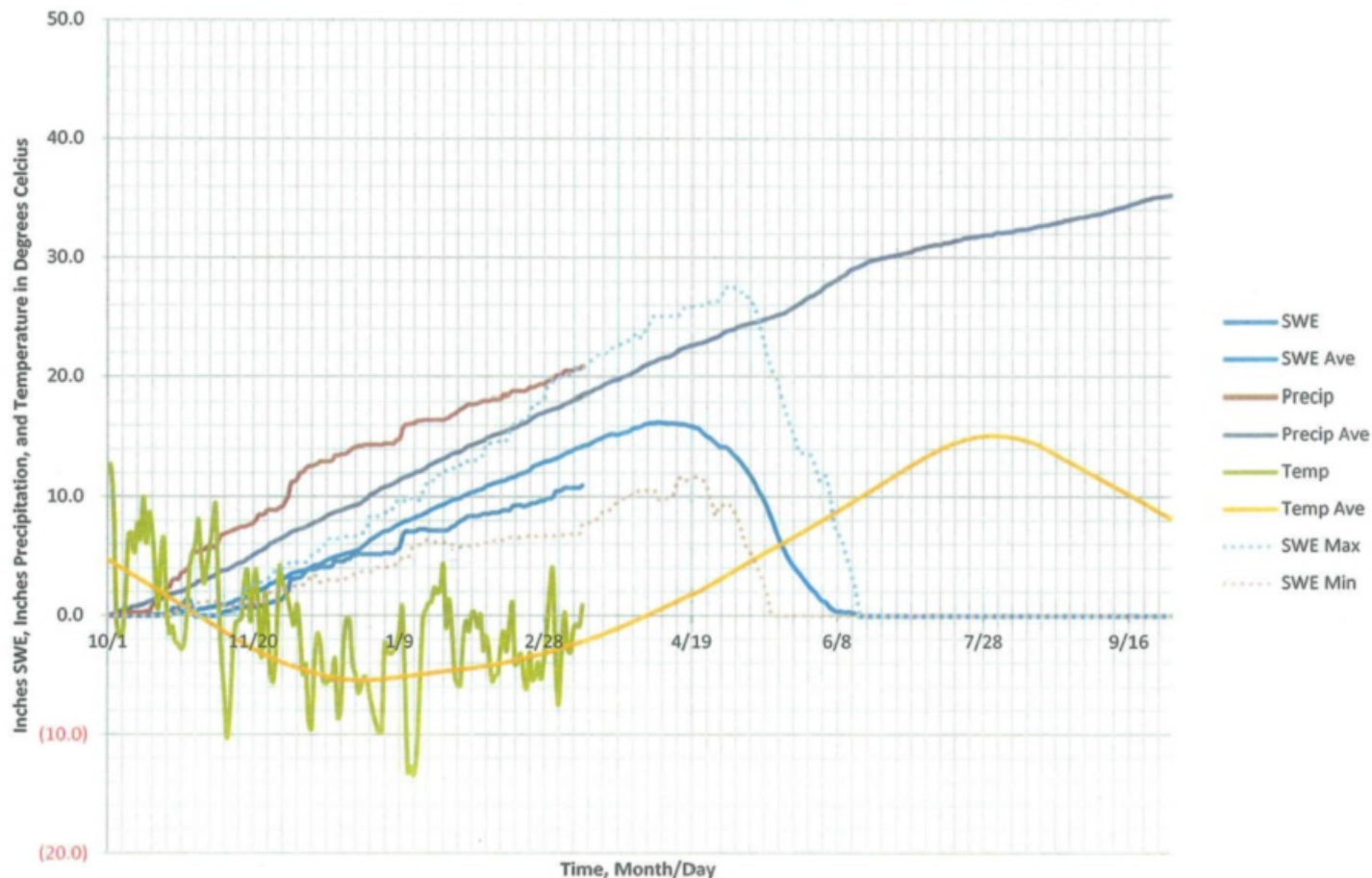
Kraft Creek Snotel, NRCS (562), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



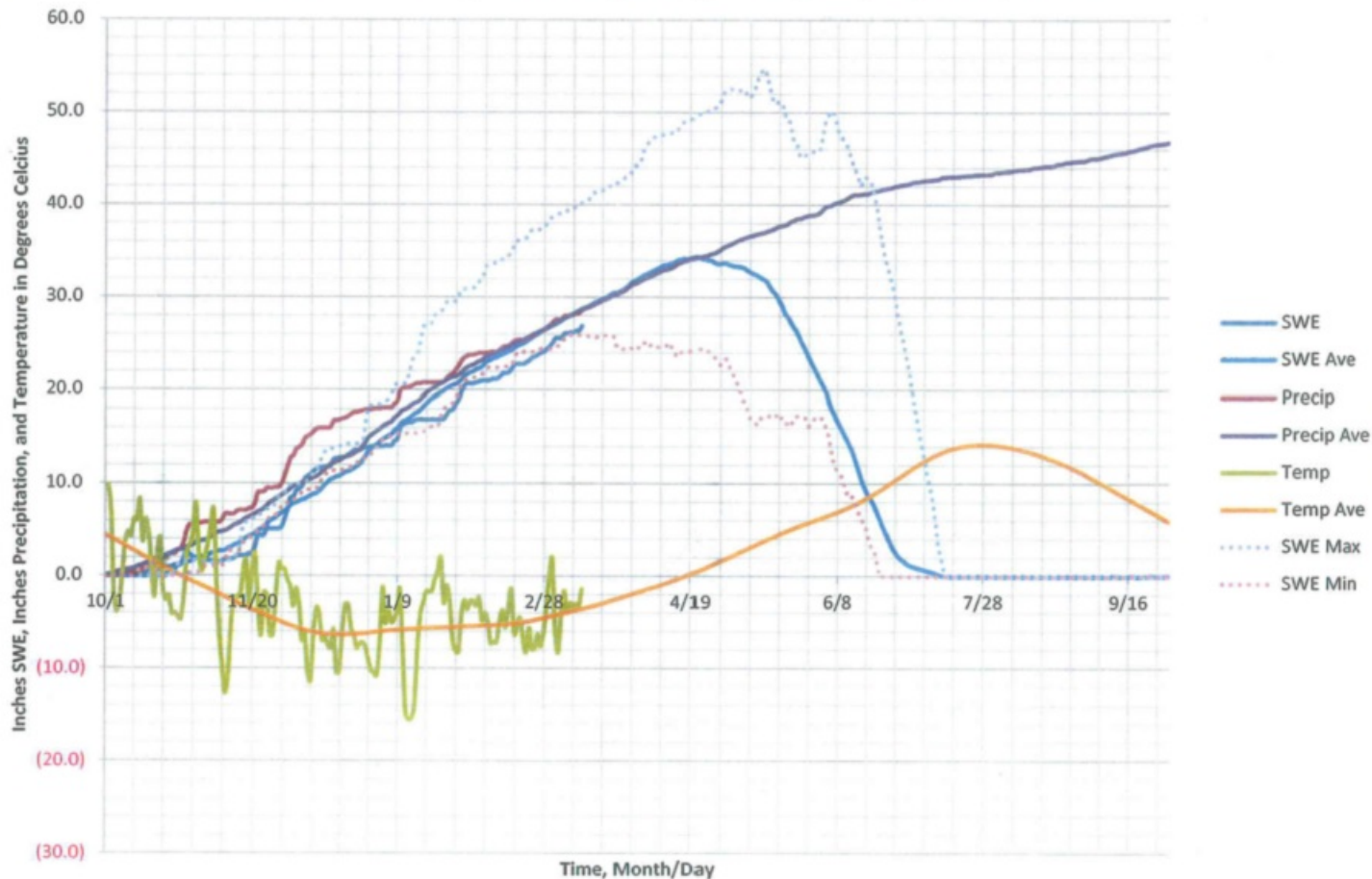
Bisson Creek Snotel, NRCS (346), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



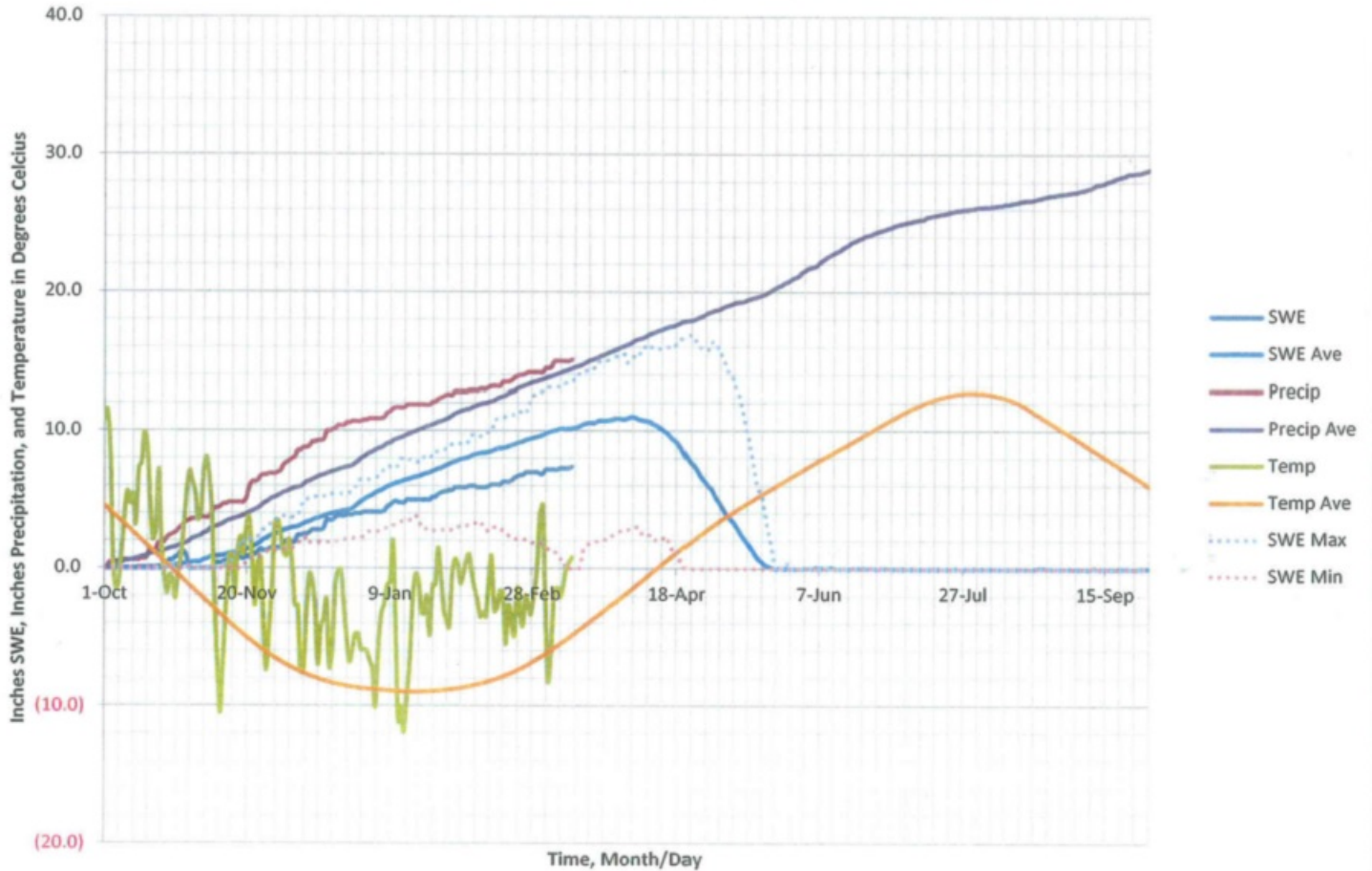
Sleeping Woman Snotel, NRCS (783), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



Stuart Mountain Snotel, NRCS (901), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



Hand Creek Snotel, NRCS (510), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



FLATHEAD INDIAN IRRIGATION PROJECT 2013
ST. IGNATIUS AGRIMET ~ MONTHLY PRECIPITATION (INCHES)
WATER YEARS 1991 - 2013

Current Water Year

WATER YEAR	MONTH												Total per Year	Total Irrigation Season
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1991	0	0	0	0	0	0	0.38	1.91	3.89	0.43	0.99	0.67	8.27	7.83
1992	0.64	1.52	0.36	0.72	0.45	1.84	2.7	0.59	2.1	1.9	1.45	1.72	15.99	8.39
1993	1	1.1	1.54	1.16	1.32	0.97	2.34	1.13	0.13	3.02	1.63	0.87	16.21	7.72
1994	2.18	0.67	0.59	0.56	0.54	0.29	2.01	1.89	1.95	0.28	0.1	0.39	11.45	5.58
1995	1.93	0.75	0.59	0.8	0.53	1.24	1.11	2.06	2.61	1.22	1.37	1.47	15.68	8.71
1996	1.52	1.38	0.92	2.07	0.45	1.18	2.39	2.89	1.61	0.62	0.16	1.22	16.41	7.18
1997	1.32	1.89	2.38	0.25	0.84	0.95	1.04	2.39	2.64	1.49	1.21	1.31	17.71	9.59
1998	1.72	0.64	0.49	1.06	0.59	1.29	1.67	3.63	3.88	2.41	0.27	0.66	18.31	11.18
1999	0.86	2.26	0.34	1.07	1.04	0.54	0.17	1.21	1.7	0.48	0.85	0.38	10.9	4.68
2000	1.15	1.28	0.39	0.92	2.25	0.81	0.99	2.46	0.4	1.18	0.14	2.71	14.68	6.74
2001	1.48	1.01	0.6	0.72	0.81	1.11	2.06	0.32	4.44	1.74	0.05	0.3	14.64	7.06
2002	1.4	0.59	0.67	0.7	0.62	1.11	0.69	2.93	3.49	0.88	0.61	0.96	14.65	8.56
2003	0.13	0.91	0.31	1.23	0.65	1.45	1.16	2.53	0.76	0.07	0.36	1.27	10.83	4.6
2004	0.47	0.82	1.42	1.16	0.46	0.51	1.69	3.22	2.47	1.41	2.16	1.12	16.91	10.3
2005	0.96	0.4	0.77	0.64	0.14	1.47	3.16	1.77	4.94	0.11	0.13	2.01	16.5	9.33
2006	1.82	1.01	0.75	0.84	0.23	1.06	3.45	1.99	2.85	0.57	0.16	1.84	16.57	6.76
2007	1.58	0.88	0.55	0.29	1.48	0.57	1.54	2.61	1.83	0.19	0.52	1.67	13.71	6.31
2008	0.43	1.1	0.47	0.82	0.62	0.61	1.12	1.71	3.69	0.69	1.73	1.01	14	8.78
2009	0.88	2.36	1.78	0.61	1.13	1.55	0.57	1.32	0.93	1.95	1.21	0.08	14.37	5.63
2010	1.11	0.22	0.87	1.22	0.46	1.6	2.78	3	4.15	0.63	2.15	2.08	20.27	12.7
2011	1.21	3.22	1.47	1.46	1.78	0.61	1.42	1.37	4.53	1.21	0.1	0.65	19.03	8.24
2012	2.68	0.53	0.78	1.66	1.17	1.13	1.98	2.53	3.34	0.96	0.01	0	16.77	8.42
2013	1.45	0.69	0.77	0.99	0.32	0.162	0	0	0	0	0	0	4.382	0
92-12 AVE	1.26	1.17	0.86	0.95	0.84	1.04	1.72	2.07	2.59	1.10	0.78	1.13	15.50	

Water YearIrrigation Season

Recorded:	4.382 current	0 current
Average:	15.50	7.92
10 Yr Ave:	15.90	8.15

Notes:

FLATHEAD INDIAN IRRIGATION PROJECT 2013
 ROUND BUTTE AGRIMET ~ MONTHLY PRECIPITATION (INCHES),
 WATER YEARS 1989 - 2013

Current Water Year

WATER YEAR -----	MONTH												Total per Year	Total Irrigation Season
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1989	0	0	0	0	0	0	1.03	1.43	1.25	1.37	3.95	1.79	10.82	10.21
1990	0.91	1.68	0.82	0.56	0.31	0.66	1.1	2.89	0.73	1.88	1.39	0.14	13.07	7.4
1991	1.3	0.75	1.06	0.66	0.3	1.14	0.22	2.87	5	0.7	1.21	0.71	15.92	10.31
1992	0.84	1.53	0.45	0.46	0.36	1.25	1.71	1.05	3.07	1.27	1.6	1.15	14.74	8.73
1993	1.36	0.76	0.66	0.75	0.95	0.65	1.24	1.6	1.23	3.9	1.86	1.91	16.87	10.32
1994	1.79	0.01	0.05	0.11	0.41	0.1	2.14	1.99	2.08	0.15	0.32	0.24	9.39	5.28
1995	2.85	0.87	0.49	0.97	0.69	1.01	0.61	2.56	2.87	1.02	1.18	1.36	16.48	8.06
1996	1.54	1.47	1.37	1.57	0.99	0.59	2.13	2.28	1.64	0.42	0.3	0.98	15.28	5.64
1997	0.81	1.78	2.44	1.07	0.69	0.62	0.93	3.04	2.23	1.17	1.21	3.24	19.23	8.67
1998	1.25	0.45	0.31	0.84	0.46	1.12	1.22	3.38	2.63	1.44	0.14	0.67	13.91	8.48
1999	0.51	1.71	0.64	0.66	0.62	0.21	0.01	0.51	1.49	0.2	0.51	0.26	7.33	2.71
2000	1.41	1.21	0.63	0.61	1.2	0.52	0.93	1.91	0.33	0.71	0.11	2.5	12.07	3.82
2001	0.91	1.02	0.62	0.87	0.9	0.91	1.44	0.11	3.66	0.64	0.49	0.22	11.79	5.34
2002	0.62	0.39	0.83	0.48	0.61	1.02	0.49	2.13	2.57	0.3	0.73	0.79	10.96	6.02
2003	0.21	1.3	0.43	1.09	0.22	1.38	0.81	1.36	1.45	0	0.39	1	9.64	3.68
2004	0.62	0.79	0.82	1.53	0.38	0.16	1.51	2.64	0.73	0.55	1.4	1.62	12.75	6.52
2005	0.9	0.21	0.57	0.83	0.11	0.41	2.54	1.17	3.8	0.02	0.09	2.23	12.88	7.55
2006	1.78	0.92	1.08	1.04	0.31	0.67	3	1.04	2.81	0.22	0.59	1.96	15.42	6.71
2007	1.63	1.09	0.6	0.2	1.24	0.39	1	1.95	1.24	0.28	0.17	1.12	10.91	5.62
2008	0.33	0.94	0.67	0.51	0.39	0.59	0.6	1.19	2.64	1.72	0.77	1.65	12	8.24
2009	0.59	1.33	1.08	0.49	0.42	0.92	0.26	0.5	1.08	1.45	1.48	0.09	9.69	4.67
2010	1	0.17	0.72	0.96	0.48	0.29	1.35	2.71	3.99	1.18	1.25	1.46	15.56	10.23
2011	1.43	2.09	1.14	1.3	1.16	0.72	0.92	1.2	2.93	0.76	0.83	0.68	15.16	6.31
2012	1.9	0.48	0.61	1.07	0.79	1.08	1.12	1.33	2.37	0.51	0.11	0.1	11.47	5.41
2013	1.59	0.57	0.52	0.53	0.11	0.08	0	0	0	0	0	0	3.40	0.00
90-12 Ave	1.15	1.00	0.79	0.81	0.61	0.71	1.19	1.80	2.29	0.89	0.79	1.13	13.15	

Water Year

Irrigation Season

Recorded:	3.40 current	0.00 current
Average:	13.15	6.91
10 Yr Ave	12.67	6.61

Notes: