

CURRENT DATE: 12/12/2012 11:11 AM
DATE OF STORAGE: 12/12/2012

RESERVOIRS BY BASIN

	Maximum Capacity	Max Usable	Current Usable	Current Storage	Percent Capacity	Percent Usable Capacity	Storage Deficit
Mission Valley							
TABOR	23483	23,483	319	319	1%	1%	23164
MISSION	8135	7,372	1,001	1,764	22%	14%	6371
McDONALD	8165	8,165	921	921	11%	11%	7244
KICKING HORSE	7190	6,410	3,100	3,880	54%	48%	3310
NINEPIPE	14872	14,036	2,093	2,929	20%	15%	11943
PABLO	28400	27,990	11,323	11,733	41%	40%	16667
TWIN	899	899	398	398	44%	44%	501
	91144	88,355	19,155	21,944	24%	Total Deficit	69,200
<u>Moiese (Mission Valley)</u>							
LOWER CROW	803	1	764	1,567	195%	na	(764)
			764			Total Deficit	(764)
<u>Jocko Valley</u>							
BLACK LAKE	2583	2,533	(50)	0	0%	-2%	2,583
LOWER JOCKO LAKE	6380	6,380	0	0	0%	0%	6,380
	8963	8913	-50	0	0%	Total Deficit	8963
<u>Camas - LBR - Ashley</u>							
LITTLE BITTERROOT	26400	24500	17700	19600	74%	72%	6800
HUBBART	12120	12093	5193	5220	43%	43%	6900
UPPER DRY FORK	2810	2397	292	705	25%	12%	2105
LOWER DRY FORK	4090	3224	347	983	25%	11%	3107
	45420	42214	23532	26508	58%	Total Deficit	9907

Date: 12/11/12 3:02 PM

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***	8330	90 - 12	52.0	11.8	11.2	1.8	6.6	169.7	95.2	17.7	24.0	12.4	15.4	155.8	135.3
646	Moss Peak	6780	88 - 12	46.0	11.8	10.9	2.0	9.0	121.1	92.4	13.4	15.7	7.0	13.4	117.2	116.9
562	Kraft Creek	4750	81 - 12	11.0	3.7	1.8	0.1	2.9	62.1	49.0	9.7	12.7	6.1	8.3	153.0	131.1
346	Bisson Creek	4920	93 - 12	4.0	2.6	0.7	0.0	1.8	38.9	27.4	6.4	7.6	4.0	7.1	107.0	118.4
901	Stuart Mountain	7400	95 - 12	48.0	8.9	11.3	1.8	6.9	163.8	127.7	10.7	15.6	6.7	10.9	143.1	146.5
783	Sleeping Woman	6150	92 - 12	19.0	4.3	3.9	0.4	4.7	83.0	91.7	7.9	12.7	7.0	9.5	133.7	161.7
1190	Bassoo Lookout	5150	12 - 13									8.8		3.9	225.6	
1165	Ashley Divide	4820	11 - 13									6.9		4.6	150.0	
510	Hand Creek	5035	79 - 12	10.0	3.4	2.5	0.4	2.3	108.7	74.5	6.3	8.8	4.5	6.8	129.4	140.1

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	no report						
13B01	Trinkus Lake	6100	49 - 12	no report						
13B05	Upper Holland	6200	48 - 12	no report						
14A19	Ashley Divide	4820	81 - 12	no report						
14A20	Ashley Lake	4000	81 - 12	no report						
14B03	Bassoo Peak	5150	61 - 12	no report						
14A09	Griffin Cr Divide	5150	60 - 12	no report						
14A18	Truman Creek	4060	81 - 12	no report						
14B01	TV Mountain	6800	56 - 12	no report						

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 0% of average and 14% of last year. The surface water supply index suggests conditions are slightly wet, +1.6. The April-July runoff predictions for Mission Creek and South Crow Creek are 26000 ac-ft and 10900 ac-ft, respectively. Current reservoir storage is 91% of capacity with 82,746 acre-feet total and 79,957 acre-feet usable.

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)	SWE				
646	Moss Peak	6780	88 - 12	12/11/12	46	10.9	9.0	11.8	121	121
667	Jocko***	6330	90 - 12	12/11/12	52	11.2	6.6	11.8	170	170
562	Kraft Creek	4750	81 - 12	12/11/12	11	1.8	2.9	3.7	62	62
346	Bisson Creek	4920	93 - 12	12/11/12	4	0.7	1.8	2.6	39	39
13B04	Fatty Creek	5500	61 - 12	no report	0	0.0	0.0	0.0	n/a	
13B01	Trinkus Lake	6100	49 - 12	no report	0	0.0	0.0	0.0	n/a	
13B05	Upper Holland	6200	48 - 12	no report	0	0.0	0.0	0.0	n/a	
				All Stations	24.6	20.3	29.8	0		98
				Moss, NFJ, Kraft, Bisson	24.6	20.3	29.8	0		98

Mission Creek above Mission Reservoir

	Prediction	Average	Actual	Remain
April - July				0
April - September				0

South Crow Creek above Pablo Feeder

April - July	0
April - September	0

JOCKO VALLEY

Snowpack conditions for the Jocko Valley are 178% of average and 49% of last year. Surface Water Supply Index unavailable, however, generally conditions are slightly wet. The April - July runoff predictions for South Fork Jocko and North Fork Jocko are 37000 ac-ft and 37000 ac-ft, respectively. Current reservoir storage is 87% capacity with 7750 acre-feet usable storage.

Snow Water Equivalent (SWE)

Station Number	Site Name	Elevation (Feet)	Years of Record	Date Measured	Snow		Last Year	Average	% of Last Year	% of Average
					Depth (in)	SWE				
667	Jocko***	6330	90 - 12	no report	52	11.2	6.6	11.8	170	95
901	Stuart Mountain	7400	95 - 12	no report	48	11.3	6.9	8.9	164	128
14801	TV Mountain	6800	56 - 12	no report	0	0	0	0	n/a	
783	Sleeping Woman	6150	92 - 12	no report	19	3.9	4.7	4.26	83	92
All Stations					26.4	18.2	24.9	0	105	
North Fork, Stuart, Sleeping Woman					26.4	18.2	24.9	0	105	

South Fork Jocko River near Arlee, MT

	Prediction	Average	Actual	Remain
April - July				0
April - September				0

North Fork Jocko River below Tabor Feeder

April - July	0
April - September	0

CAMAS - LITTLEBITTERROOT - ASHLEY

~~Snowpack conditions for the Camas - Littlebitterroot area are melted. The Surface Water Supply Index suggests conditions are wet, 2.3. The April - July runoff prediction for Mill Creek near Niarada is 5200 ac-ft. To date we have seen 6579 ac-ft actual stream discharge. Current reservoir storage is 87% of capacity with 39,737 acre-feet total and 36,761 acre-feet usable.~~

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)						
510	Hand Creek	5035	79 - 12	12/11/12	10	2.5	2.3	3.4	109	74	
14B03	Bassoo Peak	5150	61 - 12	no report	0	0	0	0	n/a		
14A19	Ashley Divide	4820	81 - 12	no report	0	0	0	0	n/a		
14A20	Ashley Lake	4000	81 - 12	no report	0	0	0	0	n/a		
14A09	Griffin Cr Divide	5150	60 - 12	no report	0	0	0	0	n/a		
14A18	Truman Creek	4060	81 - 12	no report	0	0	0	0	n/a		
						All stations	2.5	2.3	3.4	0	74
						Hand Creek	2.5	2.3	3.4	0	74

Mill Creek near Niarada

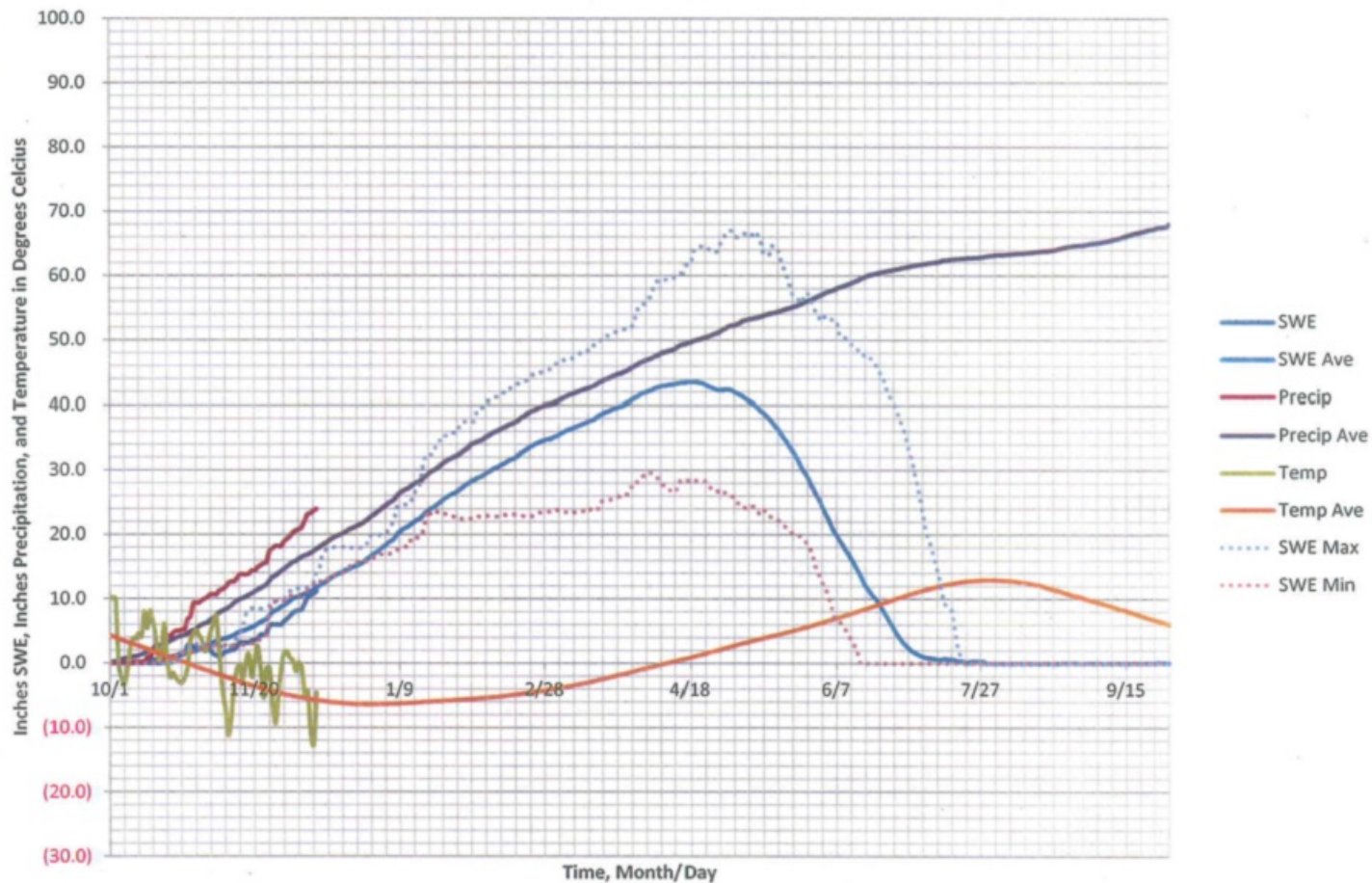
	Prediction	Average	Actual	Remain
April - July				0
April - September				0

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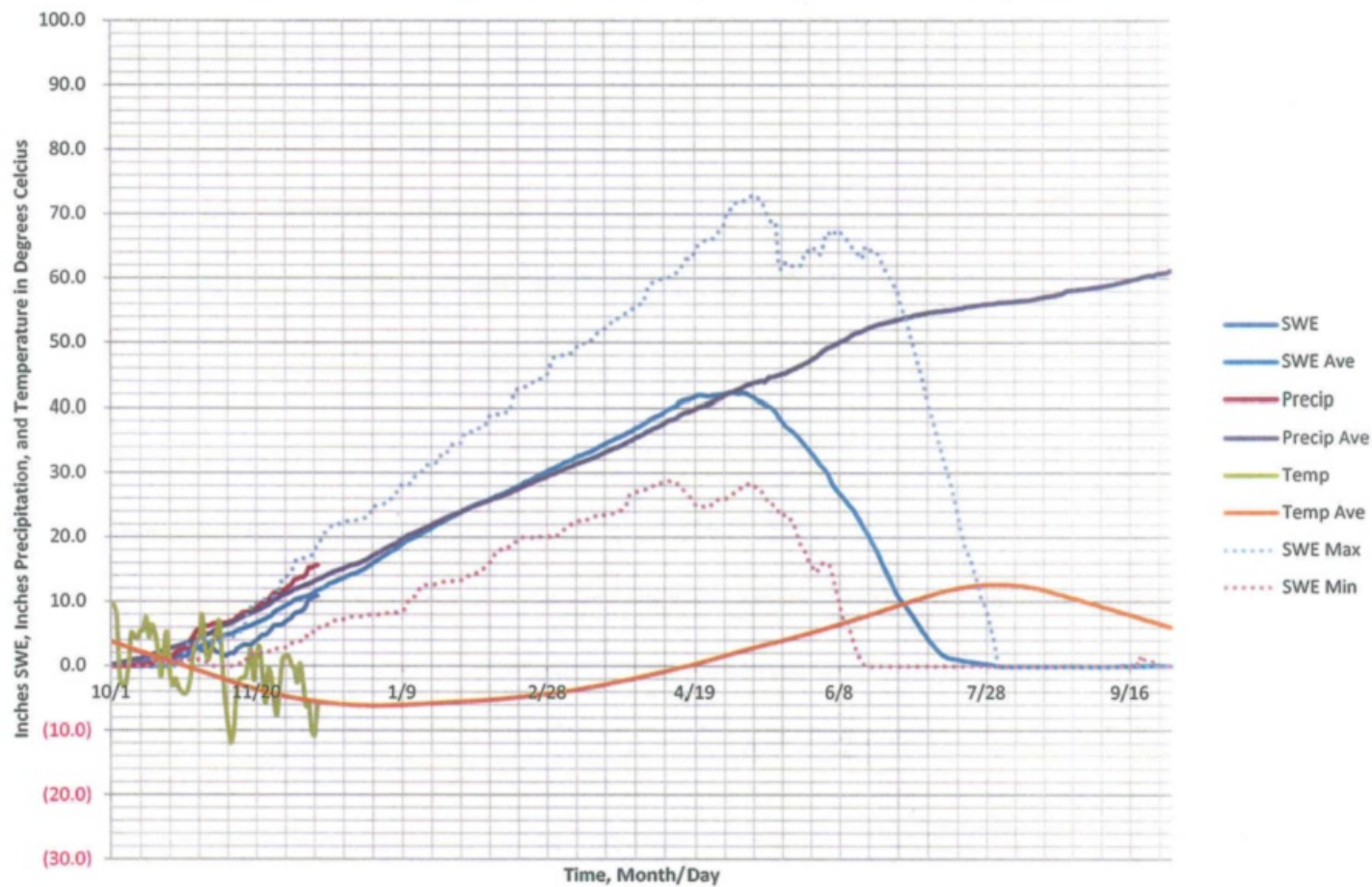
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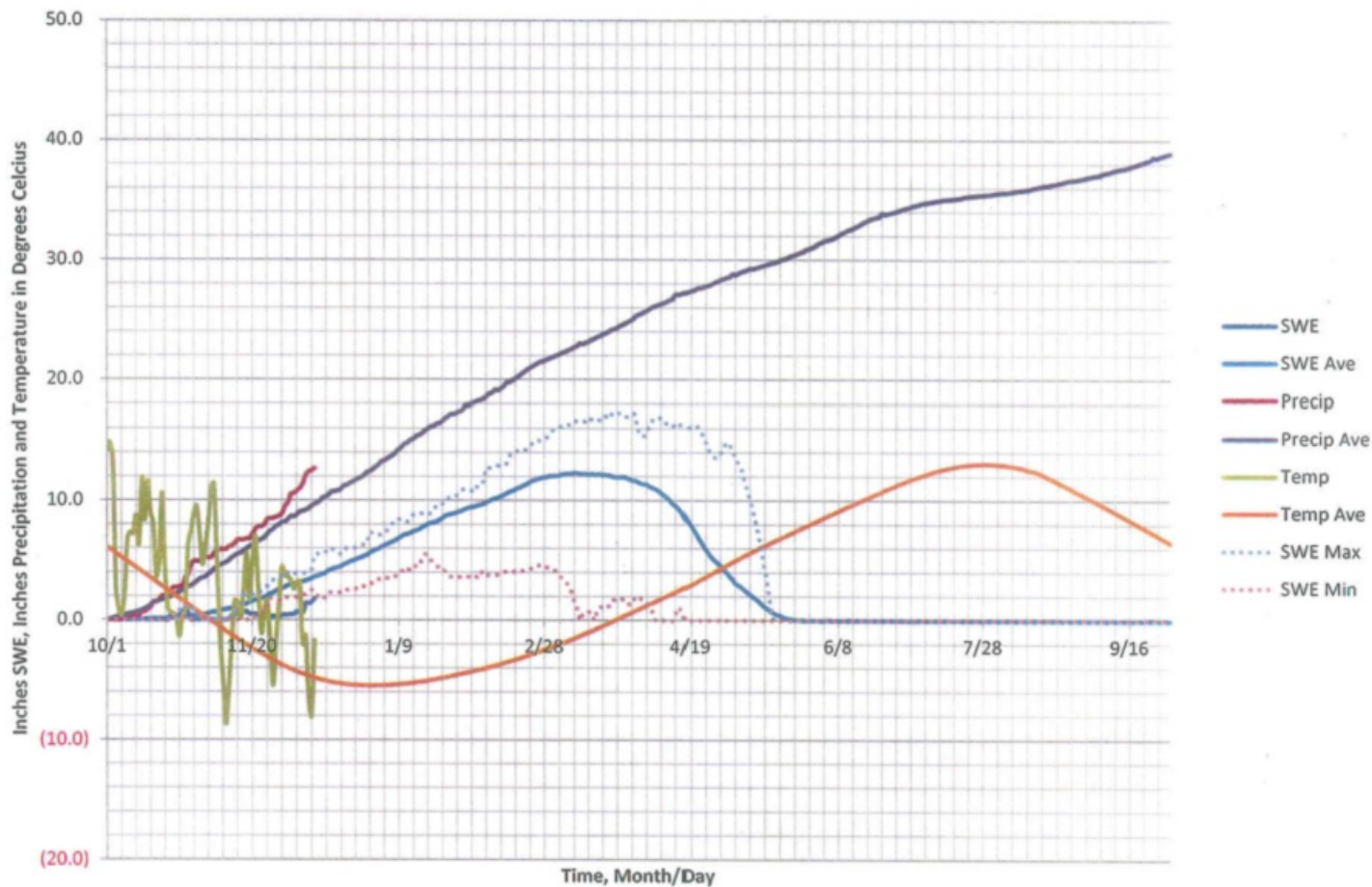
North Fork Jocko Snotel, NRCS (667), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



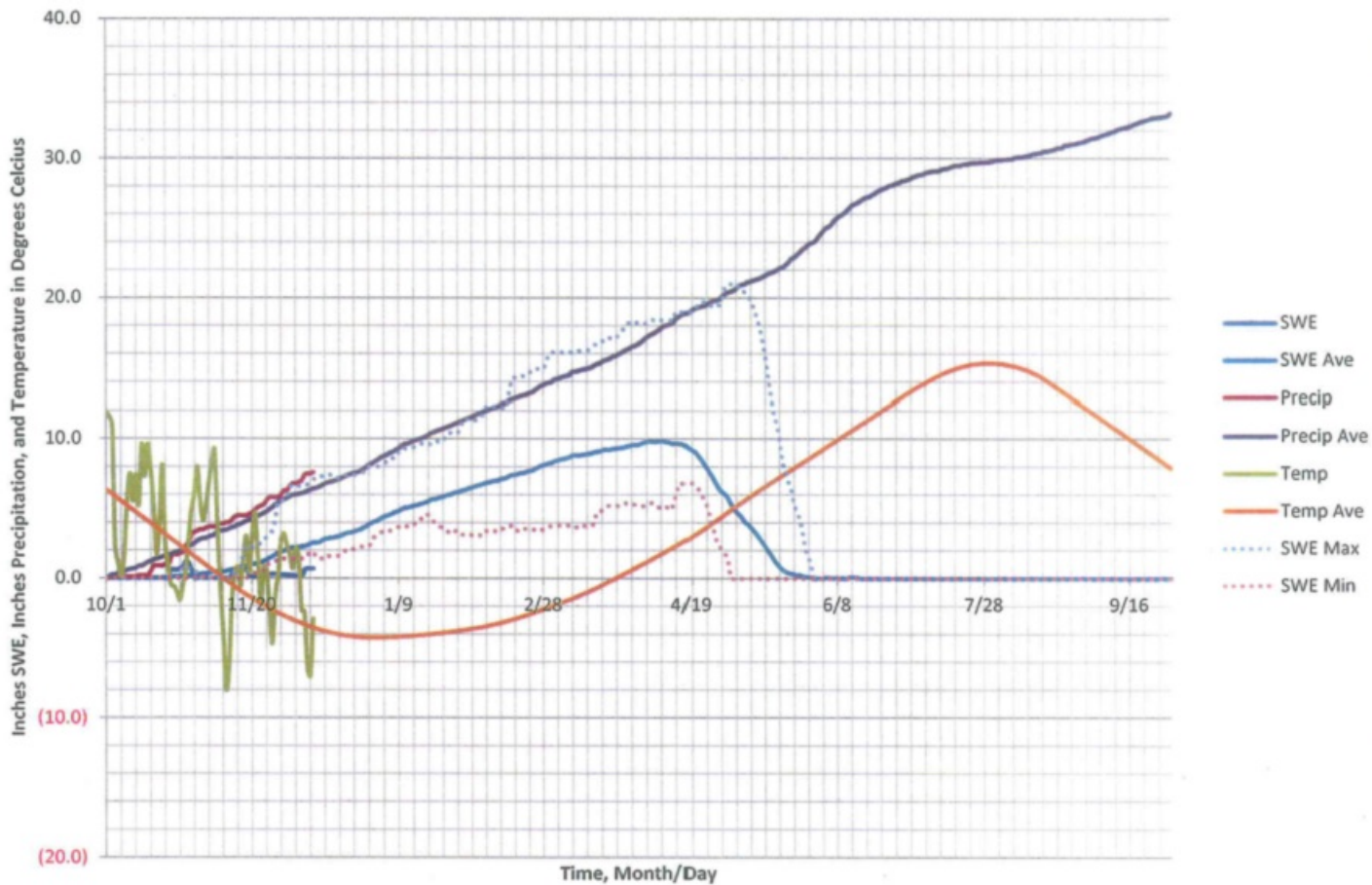
Moss Peak Snotel, NRCS (646), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



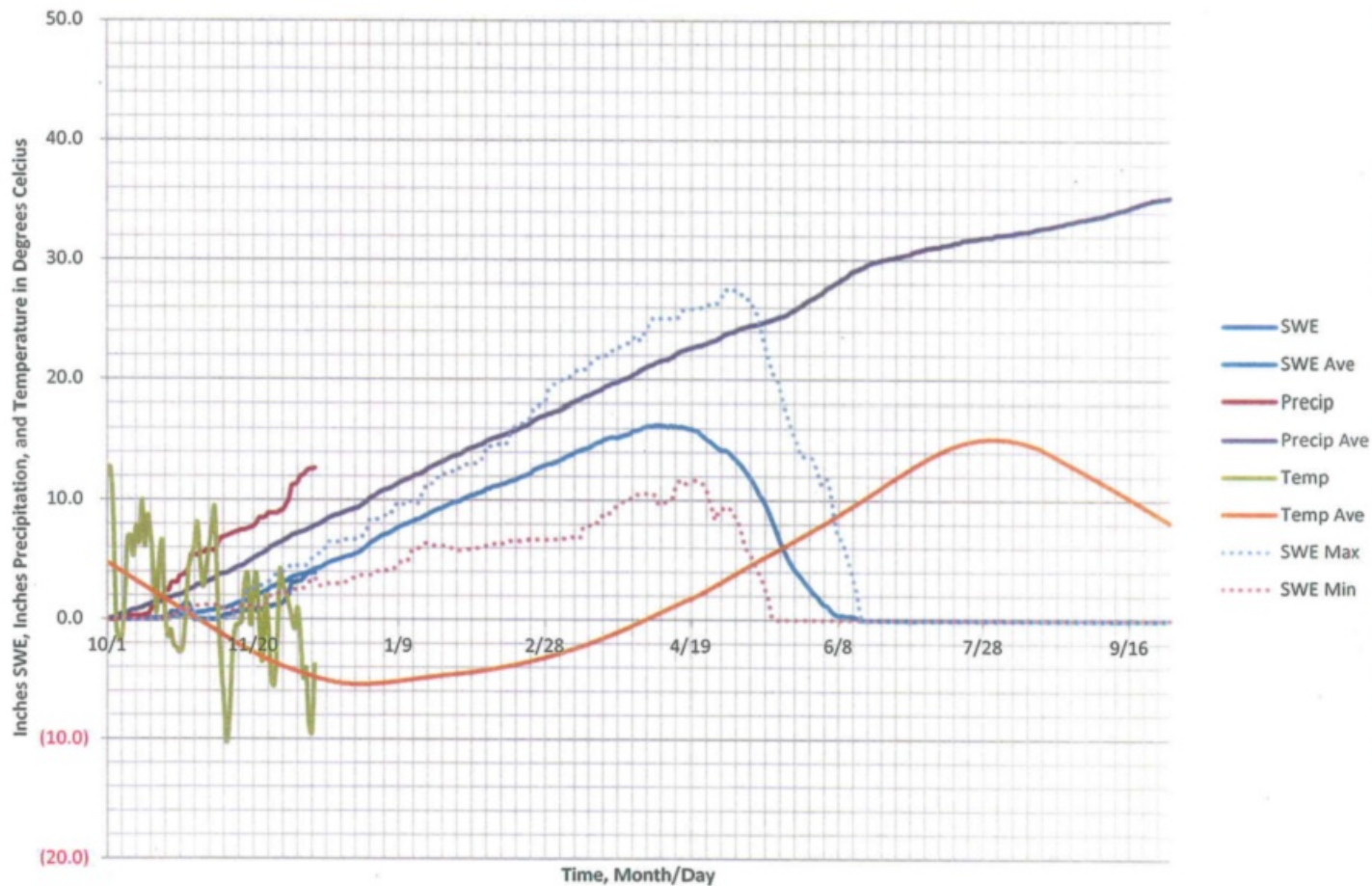
Kraft Creek Snotel, NRCS (562), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



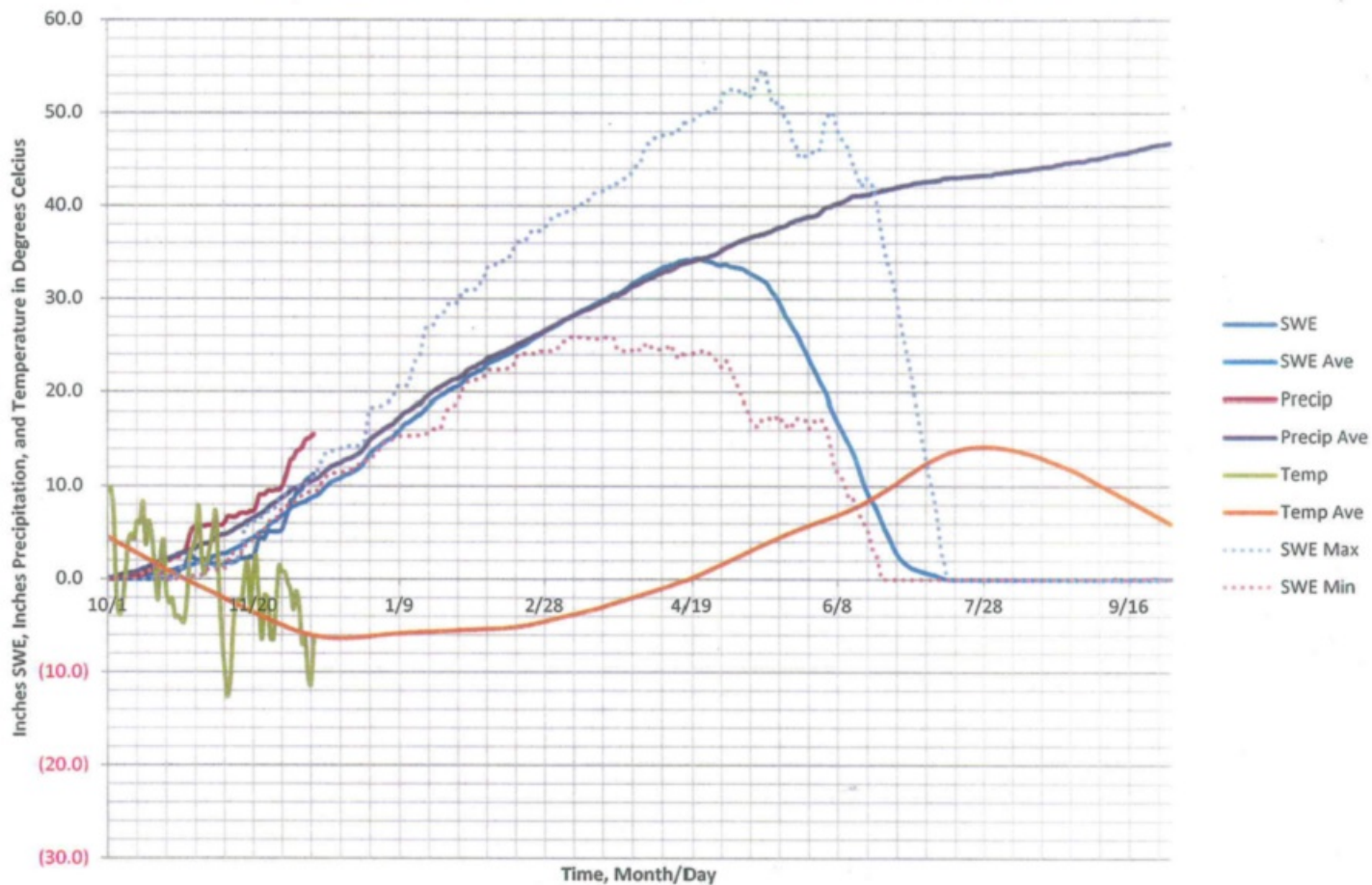
Bisson Creek Snotel, NRCS (346), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



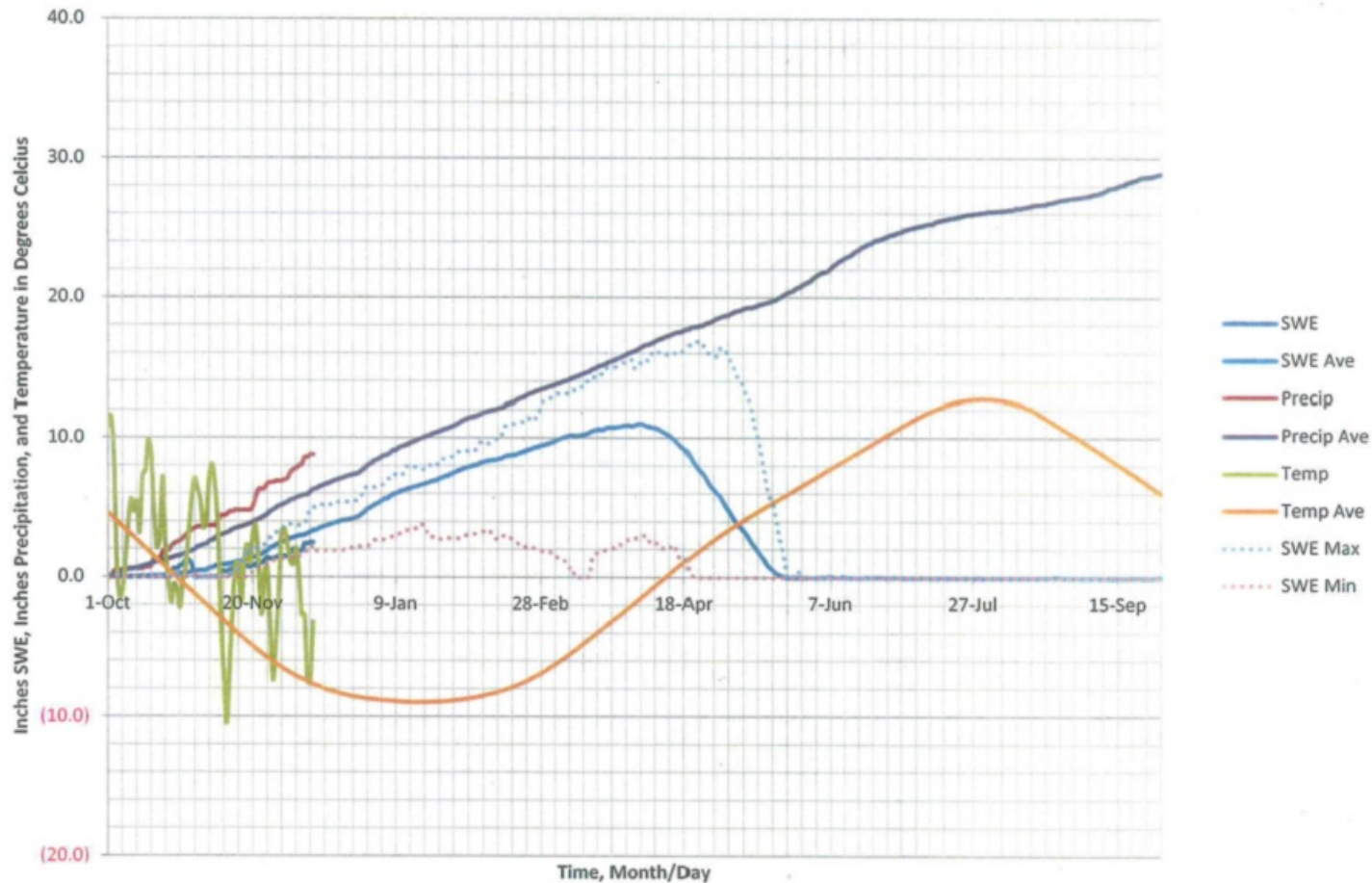
Sleeping Woman Snotel, NRCS (783), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



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	0.49	0	0	0	0	0	0	0	0	0	2.63	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: 2.63 current 0 current
Average: 15.50 7.92
10 Yr Ave: 15.90 8.15

Notes:

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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	0.32	0	0	0	0	0	0	0	0	0	2.48	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:	2.48 current	0.00 current
Average:	13.15	6.91
10 Yr Ave	12.67	6.61

Notes:

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