

CURRENT DATE: 2/13/2013 9:10 AM
DATE OF STORAGE: 2/1/2013

RESERVOIRS BY BASIN

Mission Valley	Maximum Capacity	Max Usable	Current Usable	Current Storage	Percent Capacity	Percent Usable Capacity	Storage Deficit	Last Year January EOM	January EOM Ave 92-12
TABOR	23483	23,483	61	61	0%	0%	23422	2724	1258
MISSION	8135	7,372	407	1,170	14%	6%	6965	2443	1600
McDONALD	8165	8,165	640	640	8%	8%	7525	678	925
KICKING HORSE	7190	6,410	3,220	4,000	56%	50%	3190	3940	3681
NINEPIPE	14872	14,036	2,228	3,064	21%	16%	11808	8852	4946
PABLO	28400	27,990	11,323	11,733	41%	40%	16667	11733	10758
TWIN	899	899	342	342	38%	38%	557	438	267
	91144	88,355	18,221	21,010	23%	Total Deficit	70,134	30808	23436
<u>Moiese (Mission Valley)</u>									
LOWER CROW*	803	1	62	865	108%	na	(62)	1149	5646
			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	17700	19600	74%	72%	6800	15300	9808
HUBBART	12120	12093	5223	5250	43%	43%	6870	8924	4369
UPPER DRY FORK	2810	2397	545	958	34%	23%	1852	729	1233
LOWER DRY FORK	4090	3224	465	1101	29%	14%	2989	998	1265
	45420	42214	23933	26909	59%	Total Deficit	9789	25951	16675

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Date: 2/13/13 9:49 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	81.0	30.7	26.1	18.3	23.2	112.5	84.9	36.4	38.6	31.2	31.8	121.4	106.1
646	Moss Peak	6780	88 - 12	75.0	26.9	24.3	19.0	24.2	100.4	90.5	26.5	28.0	23.3	27.5	101.8	105.5
562	Kraft Creek	4750	81 - 12	28.0	10.5	7.5	4.9	10.0	75.0	71.7	19.3	20.3	16.9	17.0	119.4	105.4
346	Bisson Creek	4920	93 - 12	17.0	7.1	4.9	3.8	7.5	65.3	68.9	12.4	12.5	10.9	13.5	92.6	100.8
901	Stuart Mountain	7400	95 - 12	65.0	23.7	21.4	16.6	22.5	95.1	90.2	24.3	24.3	20.4	24.2	100.4	100.2
783	Sleeping Woman	6150	92 - 12	34.0	11.3	8.8	7.1	12.5	70.4	77.7	15.4	18.3	16.2	17.5	104.6	118.8
1190	Bassoo Lookout	5150	12 - 13			12.9						12.9		9.3	138.7	
1165	Ashley Divide	4820	11 - 13			9.7						9.7		8.1	119.8	
510	Hand Creek	5035	79 - 12	25.0	8.5	6.0	4.8	7.2	83.3	70.7	12.1	13.1	11.7	12.8	102.3	108.4

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	2/2/13	85	25.7	23.7	25.2		102.0	
13B05	Upper Holland	6200	48 - 12	2/2/13	65	17.6	19.1	20.6		85.4	
14A19	Ashley Divide	4820	81 - 12	1/31/13	16	3.2	4.4	4.5		71.1	
14A20	Ashley Lake	4000	81 - 12		Discontinued						
14B03	Bassoo Peak	5150	61 - 12		no report						
14A09	Griffin Cr Divide	5150	60 - 12		no report						
14A18	Truman Creek	4060	81 - 12	1/31/13	11	3.2	4.4	2.9		110.3	
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 84% of average and 92% of last year. The surface water supply index suggests conditions are slightly dry, -1.9. The April - July runoff predictions for Mission Creek and South Crow Creek are 25000 ac-ft and 10000 ac-ft, respectively. Current reservoir storage is 23% of capacity with 21,010 acre-feet total and 18,221 acre-feet usable. The January EOM storage average is 23436. Last year January EOM was 30808.

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	02/13/13	75	24.3	24.2	26.9	100	90
667	North Fork Jocko***	6330	90 - 12	02/13/13	81	26.1	23.2	30.7	113	85
562	Kraft Creek	4750	81 - 12	02/13/13	28	7.5	10.0	10.5	75	72
346	Bisson Creek	4920	93 - 12	02/13/13	17	4.9	7.5	7.1	65	69
13B04	Fatty Creek	5500	61 - 12	no report		0.0	0.0	0.0	n/a	
13B01	Trinkus Lake	6100	49 - 12	2/2/13		25.7	23.7	25.2	108	102
13B05	Upper Holland	6200	48 - 12	2/2/13		17.6	19.1	20.6	92	85
All Stations						106.1	107.7	121.0	92	84
Moss, NFJ, Kraft, Bisson						62.8	64.9	75.2	88	79
Moss, NFJ Only						50.4	47.4	57.6	106.5	88

Mission Creek above Mission Reservoir

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

South Crow Creek above Pablo Feeder

April - July	10000	10100		10000
April - September	11400	11600		11400

JOCKO VALLEY

Snowpack conditions for the Jocko Valley are 84% of average and 93% of last year. Surface Water Supply Index unavailable, however, generally conditions are slightly dry. The April - July runoff predictions for South Fork Jocko and North Fork Jocko are 32000 ac-ft and 30000 ac-ft, respectively. Current reservoir storage is 0% capacity with 0 acre-feet usable storage. The January EOM storage average is 0. Last year January 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	81	26.1	23.2	30.7	113	85
901	Stuart Mountain	7400	95 - 12	no report	65	21.4	22.5	23.7	95	90
14801	TV Mountain	6800	56 - 12	Discontinued						
783	Sleeping Woman	6150	92 - 12	no report	34	8.8	12.5	11.33	70	78
All Stations						56.3	58.2	65.8	93	84
North Fork, Stuart, Sleeping Woman						56.3	58.2	65.8	93	84

South Fork Jocko River near Arlee, MT

	Prediction	Average	Actual	Remain
April - July	32000	33000		32000
April - September	36000	37000		36000

North Fork Jocko River below Tabor Feeder

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

CAMAS - LITTLEBITTERROOT - ASHLEY

Snowpack conditions for the Camas - Littlebitterroot are 84% of average and 76% of last year. The Surface Water Supply Index suggests conditions are slightly wet,+0.9. The April - July runoff prediction for Mill Creek near Niarada is 3900 ac-ft. Current reservoir storage is 59% of capacity with 26,909 acre-feet total and 23,933 acre-feet usable. The January EOM average storage is 16675. Last year January EOM was 25951.

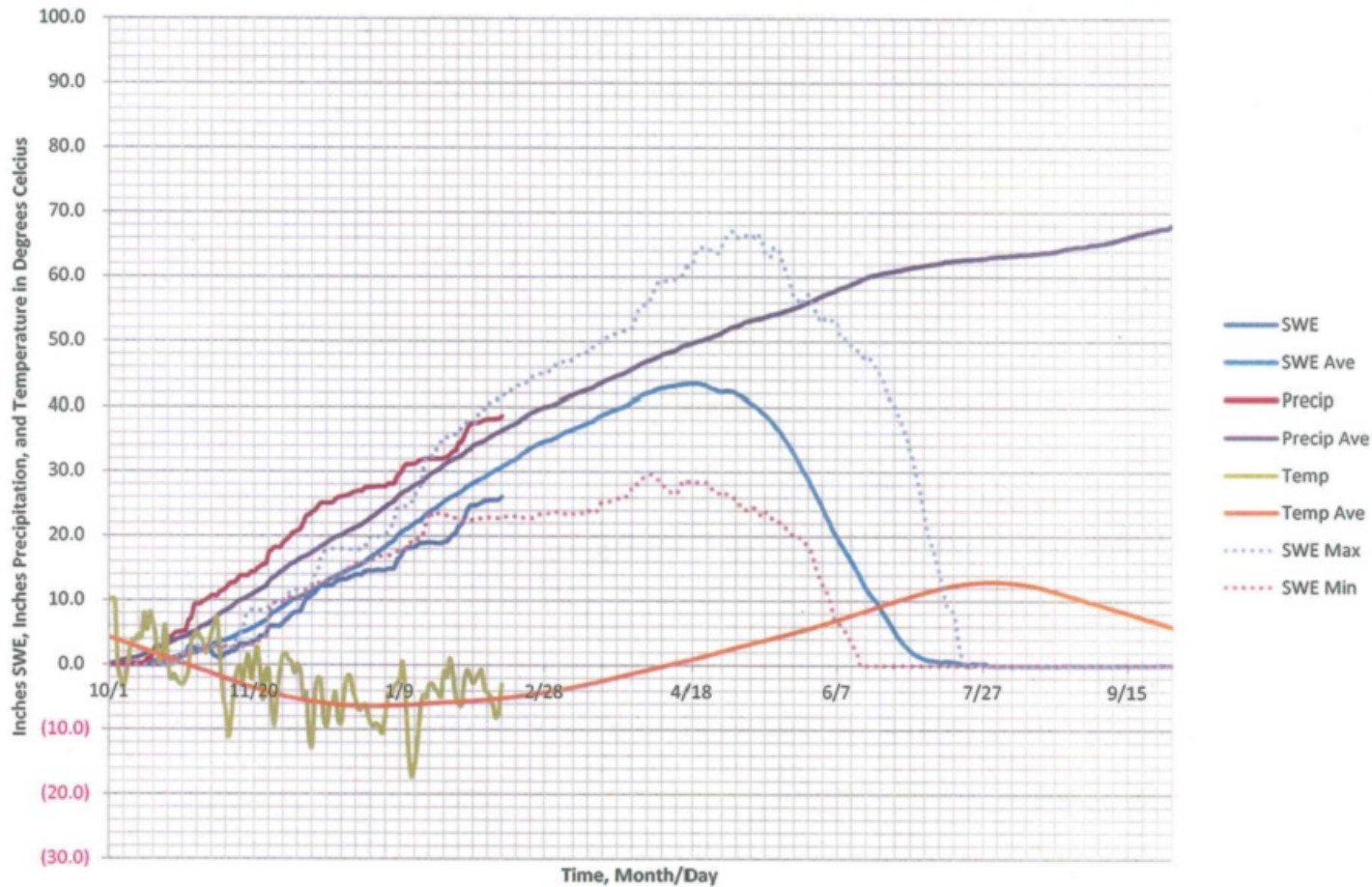
Snow Water Equivalent (SWE)

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	02/13/13	25	6.0	7.2	8.5	83	71
14B03	Bassoo Peak	5150	61 - 12	no report	0	0	0	0	n/a	
14A19	Ashley Divide	4820	81 - 12	01/31/13	16	3.2	4.4	4.5	73	71
14A20	Ashley Lake	4000	81 - 12	Discontinued	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	01/31/13	11	3.2	4.4	2.9	73	110
All stations						12.4	16.0	15.9	76	84
Hand Creek						6.0	7.2	8.5	83	71

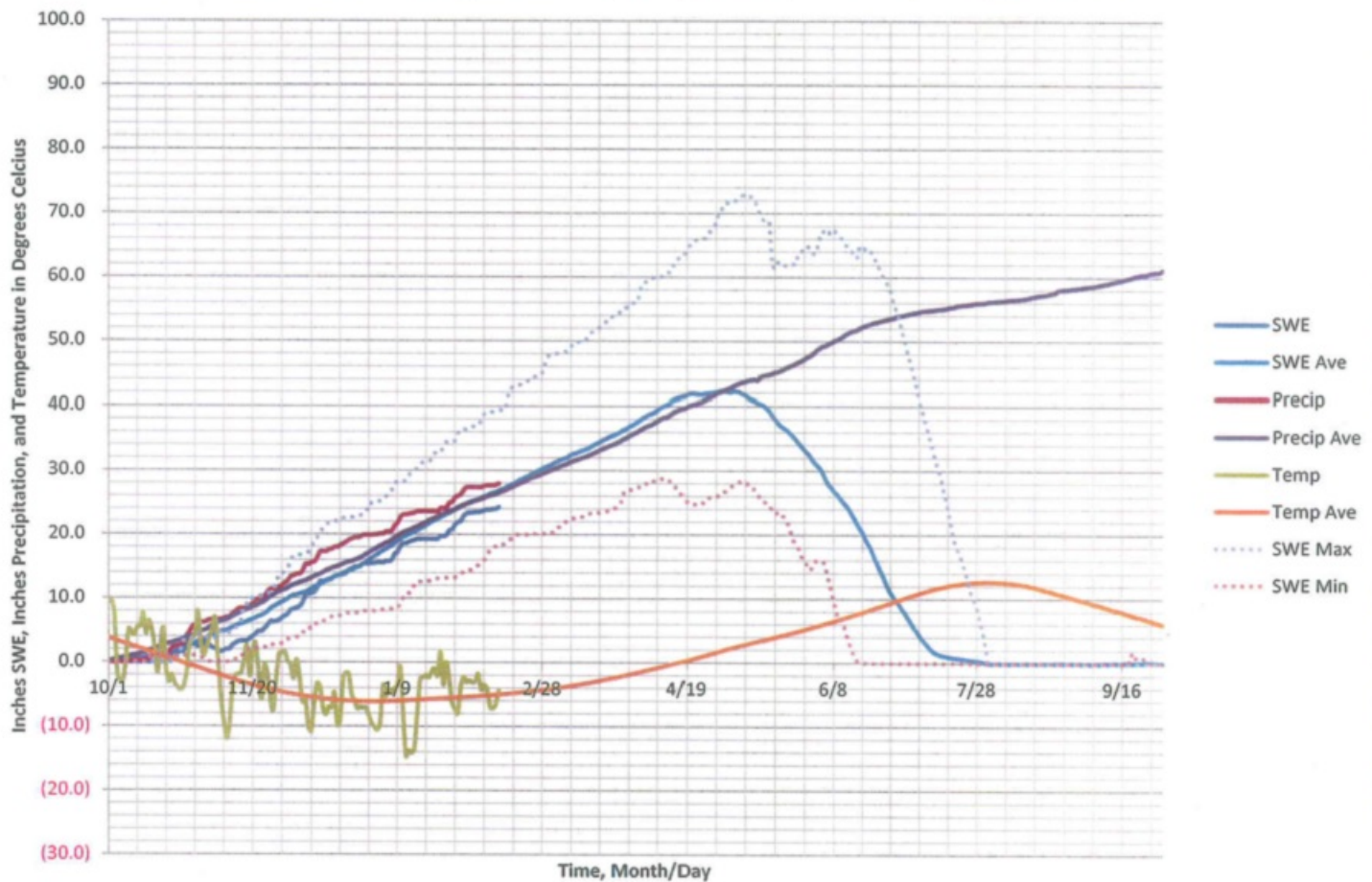
Mill Creek near Niarada

	Prediction	Average	Actual	Remain
April - July	3900	4000		3900
April - September	4300	4400		4300

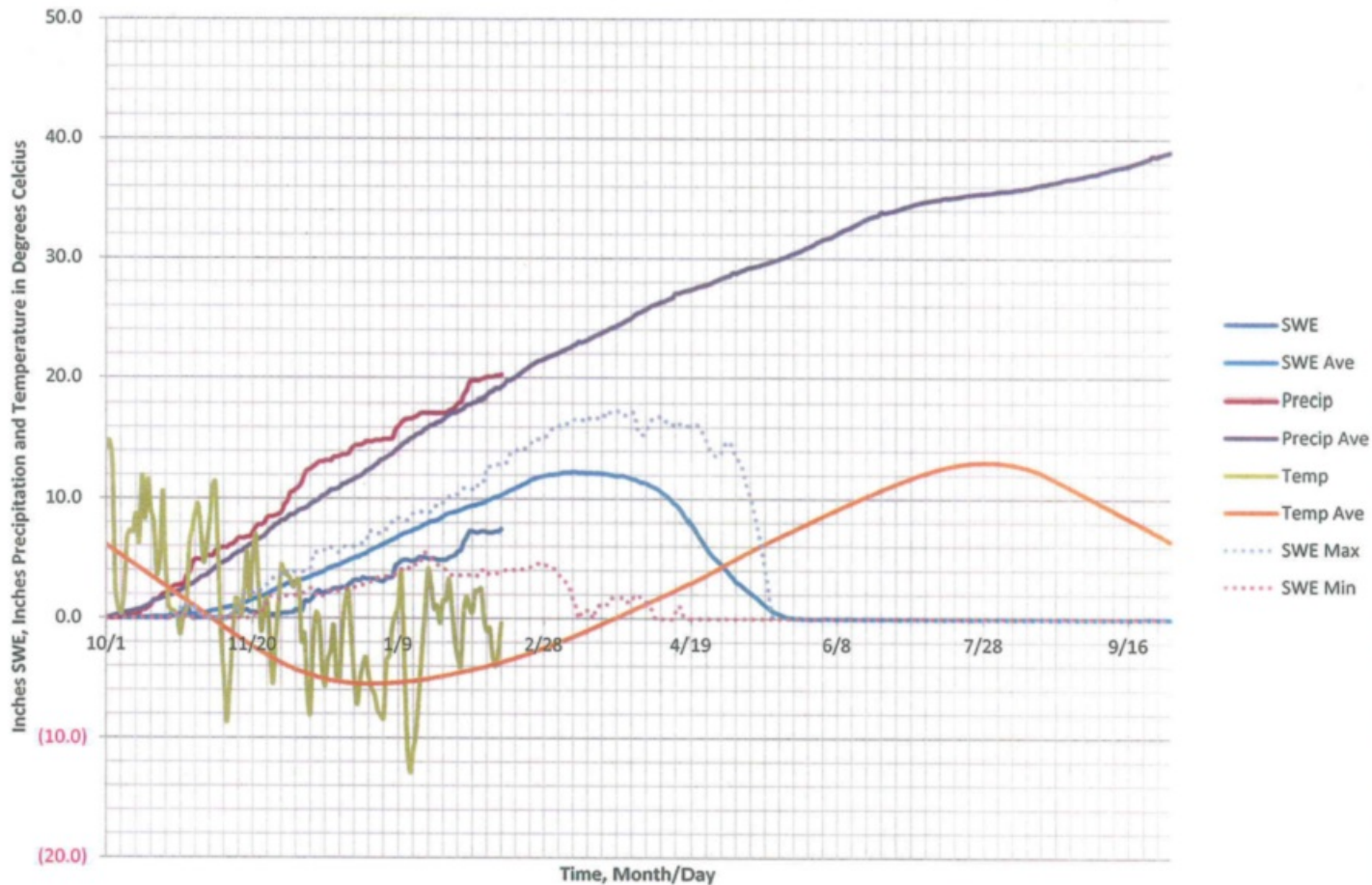
North Fork Jocko Snotel, NRCS (667), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



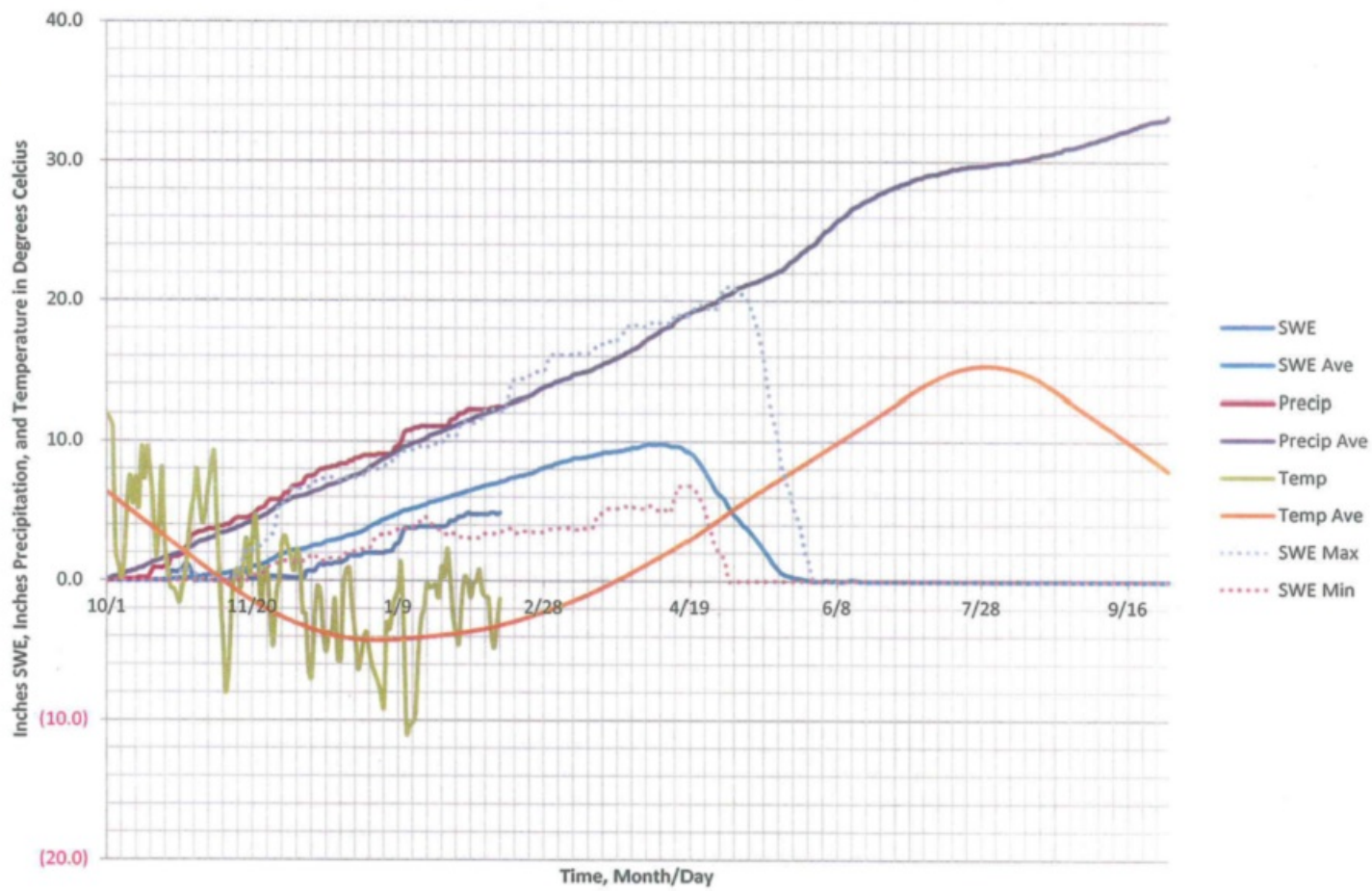
Moss Peak Snotel, NRCS (646), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



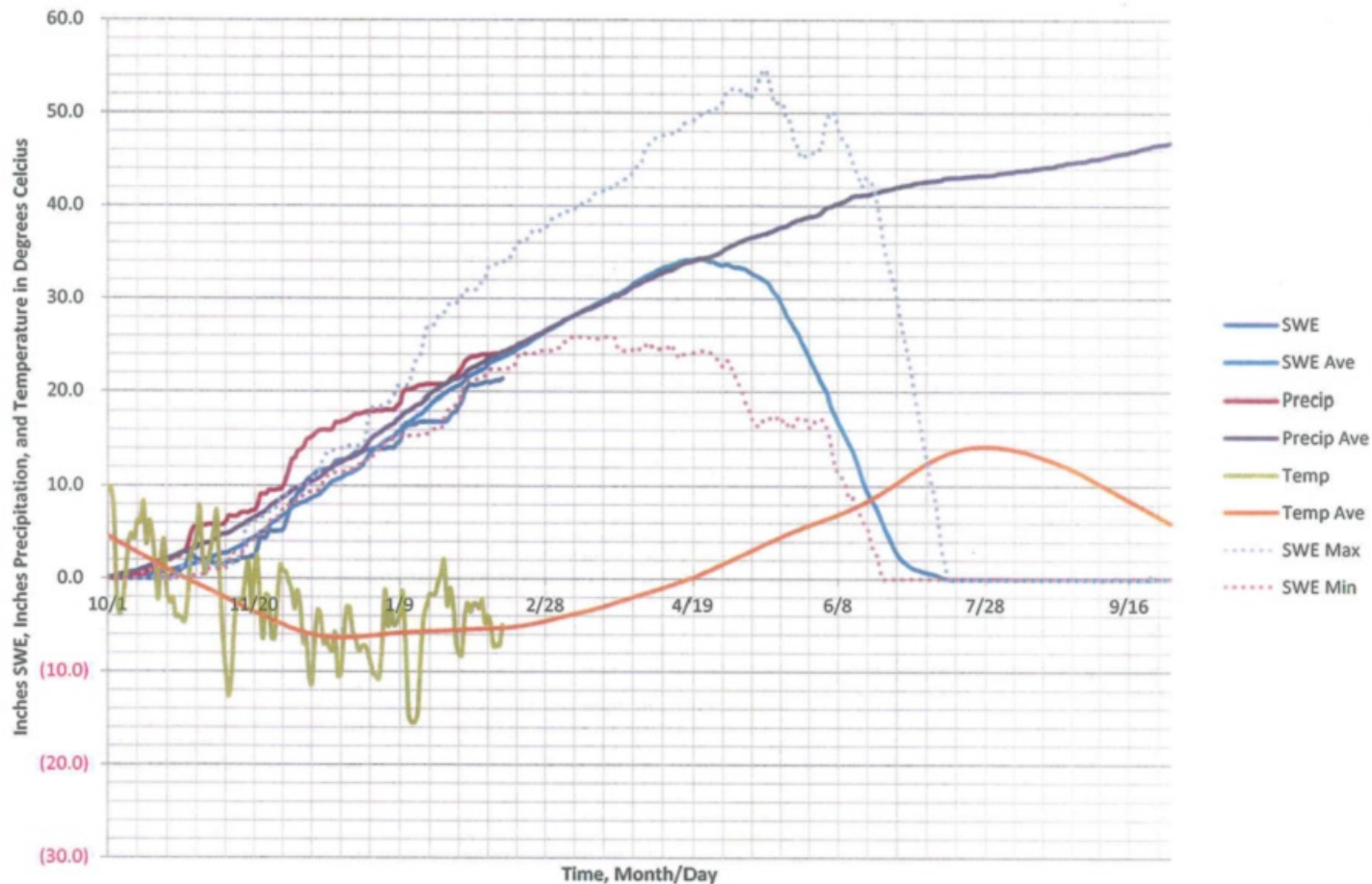
Kraft Creek Snotel, NRCS (562), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



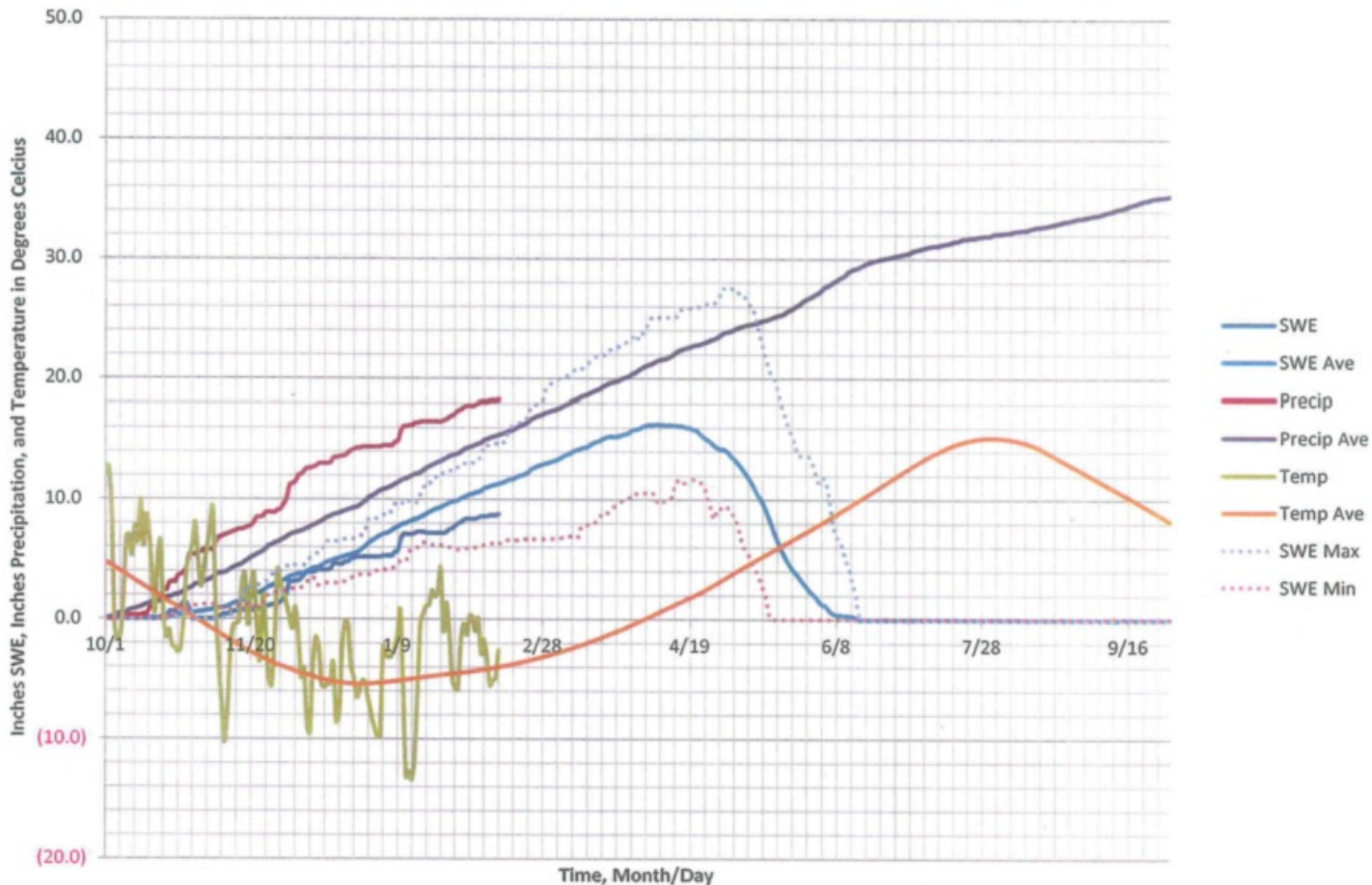
Bisson Creek Snotel, NRCS (346), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



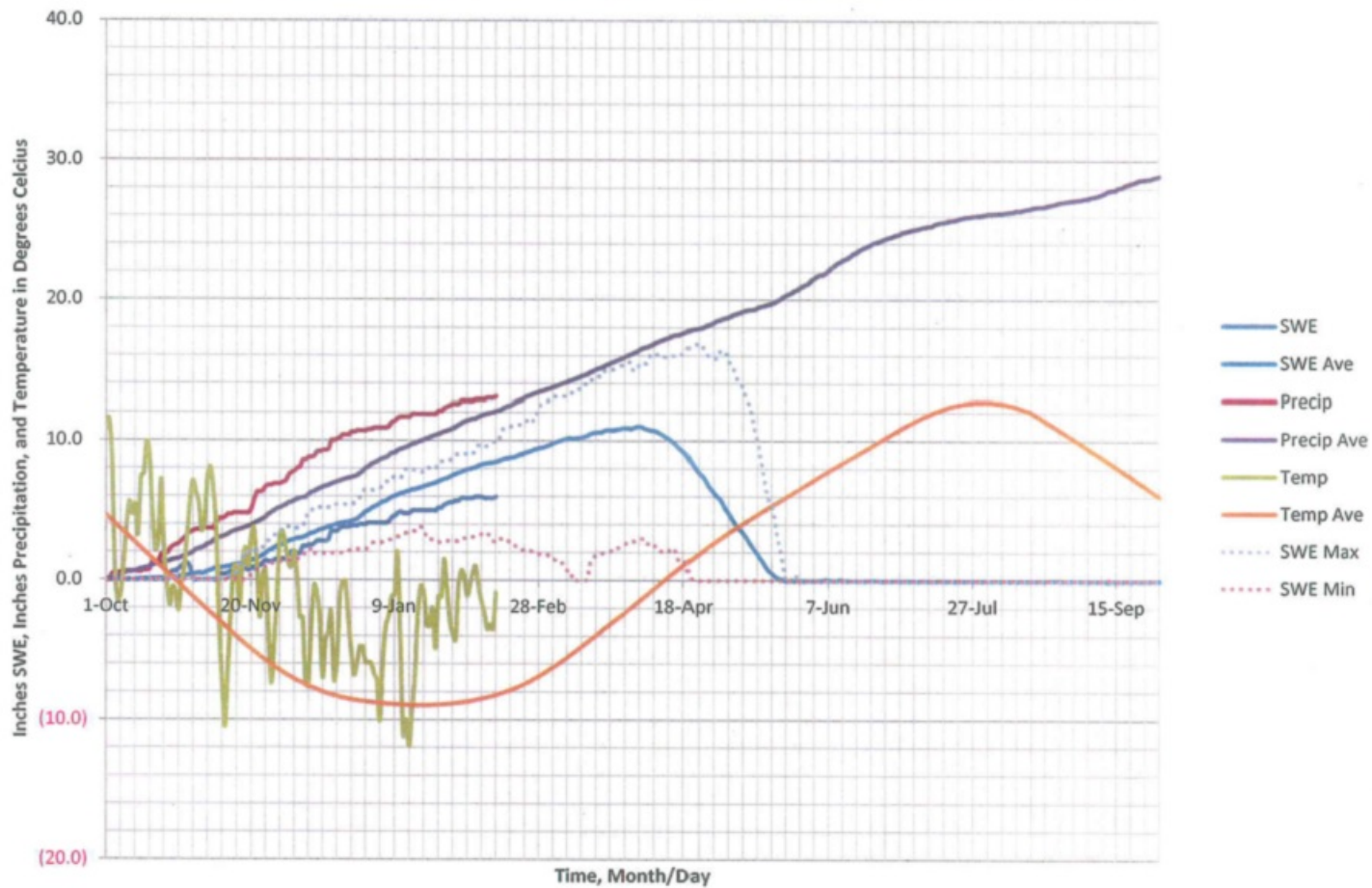
Stuart Mountain Snotel, NRCS (901), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitation, Temperature



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



Hand Creek Snotel, NRCS (510), WY 2013, Plot of Snow Water Equivalent (SWE), Precipitaion, 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	0.16	0	0	0	0	0	0	0	4.06	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 Year

Irrigation Season

Recorded: 4.06 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	0.05	0	0	0	0	0	0	0	3.26	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 YearIrrigation Season

Recorded:	3.26 current	0.00 current
Average:	13.15	6.91
10 Yr Ave	12.67	6.61

Notes:

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