COLORADO
WATER SUPPLY CONDITIONS UPDATE

FROM THE OFFICE OF THE STATE ENGINEER: COLORADO DIVISION OF WATER RESOURCES
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September 1, 2015

The Surface Water Supply Index (SWSI) is used as an indicator of mountain-based water supply conditions in the seven major river basins of the state and in each of the 8-digit HUC basins. Colorado's original SWSI was been published beginning in the 1980s. The Colorado Water Conservation Board (CWCB) completed a major revision to the Colorado Drought Plan in 2010. At that time, Colorado adopted a new SWSI analysis based on the components shown below, which vary depending on the time of year. The new SWSI is based on a ranking of total volume in a HUC or major river basin ranked against similar volumes in historical years. The Natural Resources Conservation Service (NRCS) has been producing a version of the new SWSI for the last few years.

Time Period	SWSI Components
January 1 – June 1	Forecasted Runoff + Reservoir Storage
July 1 – September 1	**Previous Month's Streamflow + Reservoir Storage**
October 1 – December 1	Reservoir Storage

Recently, CWCB and the Division of Water Resources (DWR) (both Divisions of the Colorado Department of Natural Resources) completed a software project to implement a revised version of the new SWSI and to document the underlying hydrologic data. The new DNR SWSI was developed with assistance from the NRCS and several water suppliers, as well as feedback from members of Colorado's Water Availability Task Force. July 1, 2015 was the first month that the new DNR SWSI was published. We expect this report to evolve over the next year in order to better present the new information.

The statewide SWSI values for August (September 1) range from a high value of +3.0 in the South Platte River Basin to a low of -0.3 in the Colorado River basin. All of the major river basins have near normal to above normal water supply conditions. The lower SWSI in the Colorado River Basin was largely driven by August streamflows that were less than normal. The following SWSI values were computed for each of the seven major basins for September 1, 2015.

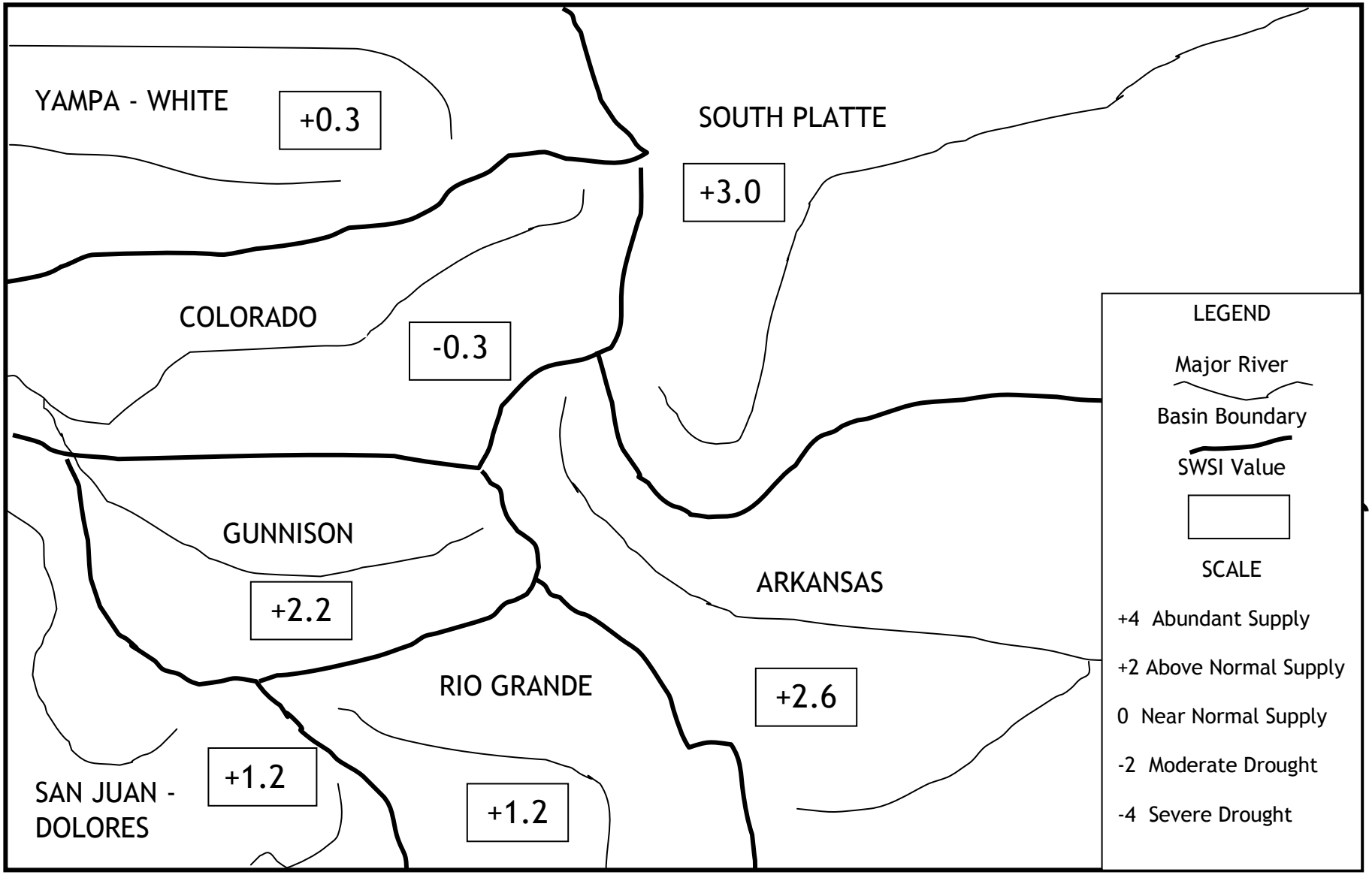
Basin	September 1 SWSI	Change from Previous Month	Change from Previous Year
Arkansas	2.6	-0.9	2.2
Colorado	-0.3	-0.6	-2.7
Gunnison	2.2	0.3	3.2
Rio Grande	1.2	-0.1	1.6
San Juan-Dolores	1.2	-1.4	1.4
South Platte	3.0	-0.6	-0.6
Yampa-White	0.3	0.1	-3.1

Additional information & data is available at: http://water.state.co.us/DWRDocs/Reports/Pages/SWSIReport.aspx

SWSI Scale

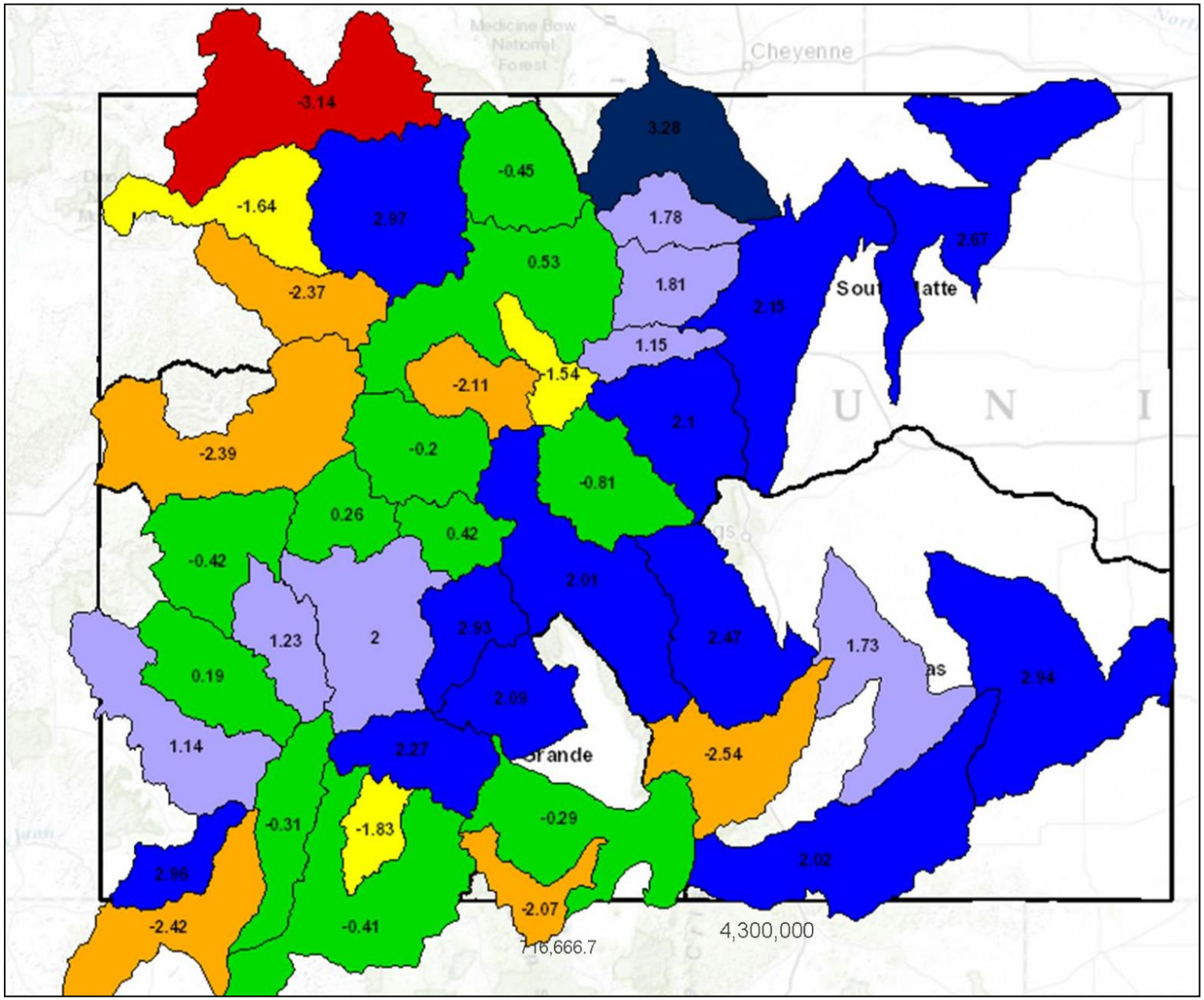
4	-3	-2	-1	0	1	2	3	4
Severe Drought		Moderate Drought		Near Normal Supply		Above Normal Supply		Abundant Supply

SURFACE WATER SUPPLY INDEX FOR COLORADO BY MAJOR RIVER BASIN



September 1, 2015

SURFACE WATER SUPPLY INDEX FOR COLORADO BY HUC



September 1, 2015

September 1, 2015 SWSI Values by HUC and Component Non Exceedance Probabilities (NEP)

	HUC ID	HUC Name	SWSI	Res Storage NEP	Prev Month's Stream Flow NEP	Total Vol (AF)
Arkansas	11020001	Arkansas Headwaters	2.0	71	54	259,454
	11020002	Upper Arkansas	2.5	82	47	262,947
	11020005	Upper Arkansas-Lake Meredith	1.7	87	45	91,014
	11020006	Huerfano	-2.5	18*	30	2,268
	11020009	Upper Arkansas-John Martin Reservoir	2.9	88	43	374,231
	11020010	Purgatoire	2.0	77	43	33,417
Colorado	14010001	Colorado Headwaters	0.5	76	13	211,449
	14010002	Blue	-1.5	41	17	157,730
	14010003	Eagle	-2.1	None	25	15,528
	14010004	Roaring Fork	-0.2	27	52	144,677
	14010005	Colorado Headwaters-Plateau	-2.4	48	21	146,666
Gunnison	14020001	East-Taylor	0.4	46	57	104,833
	14020002	Upper Gunnison	2.0	76	51	942,683
	14020003	Tomichi	2.9	89	82	12,978
	14020004	North Fork Gunnison	0.3	50	52	16,726
	14020005	Lower Gunnison	-0.4	None	45	91,077
	14020006	Uncompahgre	1.2	69	39	76,333
	14030003	San Miguel	0.2	None	52	12,403
Rio Grande	13010001	Rio Grande Headwaters	2.3	91	49	75,365
	13010002	Alamosa-Trinchera	-0.3	57	26	13,325
	13010004	Saguache	2.1	None	75	4,486
	13010005	Conejos	-2.1	32	23	24,680
San Juan-Dolores	14030002	Upper Dolores	1.1	65	16	319,417
	14080101	Upper San Juan	-0.4	81	24	119,766
	14080102	Piedra	-1.8	None	28	8,091
	14080104	Animas	-0.3	65	34	54,894
	14080105	Middle San Juan	-2.4	50**	8	722
	14080107	Mancos	3.0	87	67***	8,709
South Platte	10190001	South Platte Headwaters	-0.8	39	62	150,482
	10190002	Upper South Platte	2.1	83	72	367,450
	10190003	Middle South Platte-Cherry Creek	2.1	84	67	169,273
	10190004	Clear	1.1	None	64	13,796
	10190005	St. Vrain	1.8	71	44	91,703
	10190006	Big Thompson	1.8	77	9	573,173
	10190007	Cache La Poudre	3.3	90	81	175,931
	10190012	Middle South Platte-Sterling	2.7	98	67	225,810
Yampa-White	10180001	North Platte Headwaters	-0.4	None	45	11,071
	14050001	Upper Yampa	3.0	99	29	56,474
	14050002	Lower Yampa	-1.6	None	30	10,948
	14050003	Little Snake	-3.1	None	12	447
	14050005	Upper White	-2.4	None	22	14,898

NEP is non exceedance probability for total reservoir storage in HUC and total streamflow volume in HUC (if there is more than one of each type of component, their volumes are added together). Total Vol is the volume of reservoir storage plus streamflow volume in HUC combined. NEP is calculated compared to natural flow and active storage data for the period 1970-2010.

*Cucharas Reservoir is empty due to Division Engineer filling restriction

**Long Hollow Reservoir is newly constructed and therefore does not have a history of storage for comparison

*** Previous month's stream flow calculated based on observed stream flow instead of native stream flow

September 1, 2015 SWSI Component Information By HUC

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
11020001	Arkansas Headwaters	ARKANSAS RIVER AT SALIDA	29,254	54
		CLEAR CREEK RESERVOIR	8,400	85
		TURQUOISE LAKE	119,700	62
		TWIN LAKES RESERVOIR	59,700	61
		HOMESTAKE RESERVOIR	42,400	79
11020002	Upper Arkansas	PUEBLO RESERVOIR INFLOW	47,247	47
		PUEBLO RESERVOIR	215,700	82
11020005	Upper Arkansas-Lake Meredith	PUEBLO RESERVOIR INFLOW	47,247	47
		HUERFANO RIVER NEAR REDWING	1,461	27
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	806	40
		MEREDITH RESERVOIR	33,200	81
		LAKE HENRY	8,300	96
11020006	Huerfano	HUERFANO RIVER NEAR REDWING	1,461	27
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	806	40
		CUCHARAS RESERVOIR (filling restriction)	0	18
11020009	Upper Arkansas-John Martin Reservoir	PUEBLO RESERVOIR INFLOW	47,247	47
		HUERFANO RIVER NEAR REDWING	1,461	27
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	806	40
		PURGATOIRE RIVER AT TRINIDAD	5,417	43
		ADOBE CREEK RESERVOIR	62,700	94
		JOHN MARTIN RESERVOIR	256,600	86
11020010	Purgatoire	PURGATOIRE RIVER AT TRINIDAD	5,417	43
		TRINIDAD LAKE	28,000	77
14010001	Colorado Headwaters	COLORADO RIVER NEAR DOTSERO	71,749	13
		WILLIAMS FORK RESERVOIR	93,500	85
		WOLFORD MOUNTAIN RESERVOIR	46,200	70
14010002	Blue	BLUE RIVER INFLOW TO GREEN MOUNTAIN RES	22,430	17
		GREEN MOUNTAIN RESERVOIR	135,300	41
14010003	Eagle	EAGLE RIVER BELOW GYPSUM	15,528	25
14010004	Roaring Fork	ROARING FORK AT GLENWOOD SPRINGS	52,777	52
		RUEDI RESERVOIR	91,900	27
14010005	Colorado Headwaters-Plateau	COLORADO RIVER NEAR CAMEO	132,149	21
		VEGA RESERVOIR	14,517	48
14020001	East-Taylor	TAYLOR R INF TO TAYLOR PARK RESERVOIR	9,703	55
		EAST RIVER AT ALMONT	12,530	50
		TAYLOR PARK RESERVOIR	82,600	46
14020002	Upper Gunnison	GUNNISON RIVER NEAR GUNNISON, CO	32,498	58
		LAKE FORK AT GATEVIEW, CO	11,086	55
		BLUE MESA RESERVOIR	771,900	77
		MORROW POINT RESERVOIR	112,000	18
		FRUITLAND RESERVOIR	1,000	64
		CRAWFORD RESERVOIR	8,100	69
		SILVER JACK RESERVOIR	6,100	43
14020003	Tomichi	TOMICHI CREEK AT GUNNISON, CO	12,278	82
		VOUGA RESERVOIR NEAR DOYLEVILLE	700	89
14020004	North Fork Gunnison	NORTH FORK GUNNISON R NR SOMERSET	8,626	52
		PAONIA RESERVOIR	8,100	50
14020005	Lower Gunnison	GUNNISON RIVER NR GRAND JUNCTION	91,077	45
14020006	Uncompahgre	UNCOMPAHGRE RIVER AT COLONA	8,733	39
		RIDGEWAY RESERVOIR	67,600	69
14030003	San Miguel	SAN MIGUEL RIVER NEAR PLACERVILLE	12,403	52

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
13010001	Rio Grande Headwaters	RIO GRANDE NEAR DEL NORTE	32,065	49
		RIO GRANDE RESERVOIR	23,700	92
		SANTA MARIA RESERVOIR	19,600	92
		CONTINENTAL RESERVOIR (drained for repair)	0	6
13010002	Alamosa-Trinchera	ALAMOSA CREEK ABOVE TERRACE RESERVOIR	2,452	21
		TRINCHERA CK	720	36
		SANGRE DE CRISTO	249	21
		UTE CREEK	898	33
		CULEBRA CREEK AT SAN LUIS	1,740	41
		TERRACE RESERVOIR	3,700	50
		MOUNTAIN HOME	3,566	64
13010004	Saguache	SAGUACHE CREEK NEAR SAGUACHE, CO	4,486	75
13010005	Conejos	CONEJOS RIVER NEAR MOGOTE	5,980	23
		PLATORO RESERVOIR	18,700	32
14030002	Upper Dolores	DOLORES RIVER BELOW MCPHEE RESERVOIR	7,317	16
		GROUNDHOG RESERVOIR	22,400	99
		MCPHEE RESERVOIR	289,700	61
14080101	Upper San Juan	SAN JUAN RIVER NEAR CARRACAS	11,626	23
		LOS PINOS RIVER NEAR BAYFIELD	13,440	34
		VALLECITO RESERVOIR	94,700	81
14080102	Piedra	PIEDRA RIVER NEAR ARBOLES	8,091	28
14080104	Animas	ANIMAS RIVER AT DURANGO	27,406	40
		FLORIDA RIVER INFLOW TO LEMON RESERVOIR	2,089	19
		LEMON RESERVOIR	25,400	65
14080105	Middle San Juan	LA PLATA RIVER AT HESPERUS	473	8
		LONG HOLLOW RESERVOIR	249	50
14080107	Mancos	MANCOS RIVER NEAR MANCOS	1,309	67
		JACKSON GULCH RESERVOIR	7,400	87
10190001	South Platte Headwaters	ELEVENMILE CANYON RESV INFLOW	8,360	62
		ANTERO RESERVOIR (drained for repair)	22	4
		ELEVENMILE CANYON RESERVOIR	99,300	38
		SPINNEY MOUNTAIN RESERVOIR	42,800	67
10190002	Upper South Platte	SOUTH PLATTE RIVER AT SOUTH PLATTE	33,343	72
		BEAR CREEK ABV EVERGREEN	3,007	66
		CHEESMAN LAKE	76,100	61
		DILLON RESERVOIR	255,000	84
10190003	Middle South Platte-Cherry Creek	SOUTH PLATTE RIVER AT SOUTH PLATTE	33,343	72
		BEAR CREEK ABV EVERGREEN	3,007	66
		CLEAR CREEK AT GOLDEN	13,796	64
		SAINT VRAIN CREEK AT LYONS	9,139	41
		BOULDER CREEK NEAR ORODELL	5,364	55
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	1,730	21
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	6,629	9
		CACHE LA POUDRE R AT CANYON MOUTH	19,665	81
		BARR LAKE	22,600	97
		MILTON RESERVOIR	6,400	33
		STANDLEY RESERVOIR	38,800	61
		HORSECREEK RESERVOIR	8,800	86
10190004	Clear	CLEAR CREEK AT GOLDEN	13,796	64
10190005	St. Vrain	SAINT VRAIN CREEK AT LYONS	9,139	41
		BOULDER CREEK NEAR ORODELL	5,364	55
10190005	St. Vrain	SOUTH BOULDER CK NR ELDORADO SPRINGS,	1,730	21

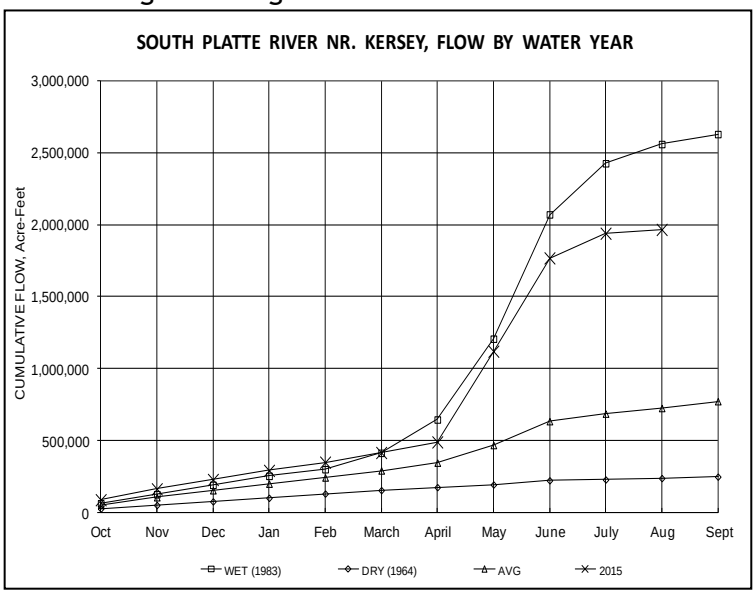
HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
		CO		
		GROSS RESERVOIR	36,800	60
		MARSHALL RESERVOIR	6,800	75
		BUTTONROCK (RALPH PRICE) RESERVOIR	14,900	64
		TERRY RESERVOIR	5,770	63
		UNION RESERVOIR	11,200	70
10190006	Big Thompson	BIG THOMPSON R AT MOUTH, NR DRAKE, CO	6,629	9
		BOYD LAKE	31,229	60
		CARTER LAKE	76,500	89
		LAKE LOVELAND RESERVOIR	5,321	19
		LONE TREE RESERVOIR	2,279	20
		MARIANO RESERVOIR	2,015	84
		LAKE GRANBY	441,400	74
		WILLOW CREEK RESERVOIR	7,800	35
10190007	Cache La Poudre	CACHE LA POUDRE R AT CANYON MOUTH	19,665	81
		BLACK HOLLOW RESERVOIR	3,980	98
		CACHE LA POUDRE	6,376	92
		CHAMBERS LAKE	3,627	65
		COBB LAKE	19,130	86
		FOSSIL CREEK RESERVOIR	6,687	94
		HALLIGAN RESERVOIR	5,595	90
		HORSETOOTH RESERVOIR	105,800	89
		WINDSOR RESERVOIR	5,071	80
10190012	Middle South Platte-Sterling	SOUTH PLATTE RIVER AT SOUTH PLATTE	33,343	72
		BEAR CREEK ABV EVERGREEN	3,007	66
		CLEAR CREEK AT GOLDEN	13,796	64
		SAINT VRAIN CREEK AT LYONS	9,139	41
		BOULDER CREEK NEAR ORODELL	5,364	55
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	1,730	21
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	6,629	9
		CACHE LA POUDRE R AT CANYON MOUTH	19,665	81
		EMPIRE RESERVOIR	25,324	98
		JACKSON LAKE RESERVOIR	20,751	82
		JULESBURG RESERVOIR	11,449	80
		POINT OF ROCKS RESERVOIR	29,182	87
		PREWITT RESERVOIR	19,778	91
		RIVERSIDE RESERVOIR	26,653	95
10180001	North Platte Headwaters	NORTH PLATTE R NR NORTHGATE	11,071	45
14050001	Upper Yampa	YAMPA RIVER AT STEAMBOAT SPRINGS	7,283	40
		ELK RIVER NEAR MILNER, CO	6,563	21
		ELKHEAD CREEK ABOVE LONG GULCH	128	28
		STAGECOACH RESERVOIR NR OAK CREEK	35,600	99
		YAMCOLO RESERVOIR	6,900	86
14050002	Lower Yampa	YAMPA RIVER NEAR MAYBELL	10,948	30
14050003	Little Snake	LITTLE SNAKE RIVER NEAR LILY	447	12
14050005	Upper White	WHITE RIVER NEAR MEEKER	14,898	22

Basinwide Conditions Assessment

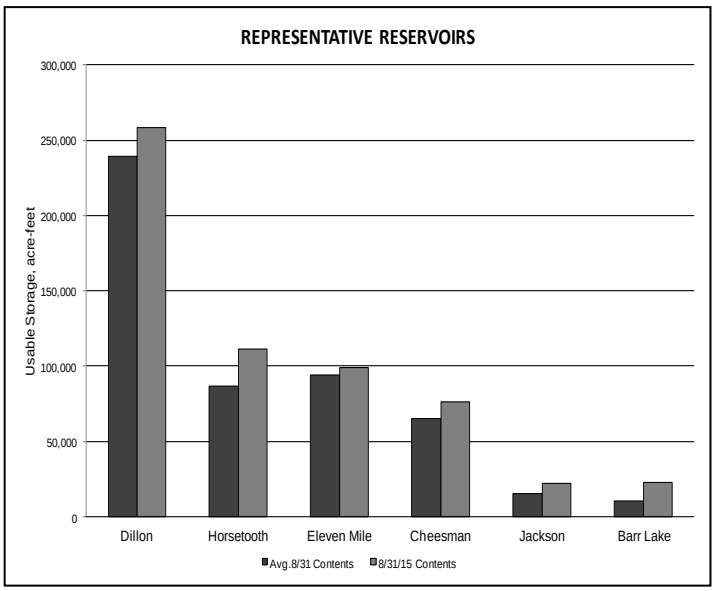
The SWSI value for the month was 3.0. August 2015 "felt" a lot more like a "normal" August than the previous months of the 2015 Irrigation Year. Water supply was not great, but it was still good enough to keep the calls on the South Platte mainstem and most of the major tributaries more junior than "normal" for August. The biggest factor in "feeling normal" was that, as usually happens, there was a mainstem call for almost the entire month.

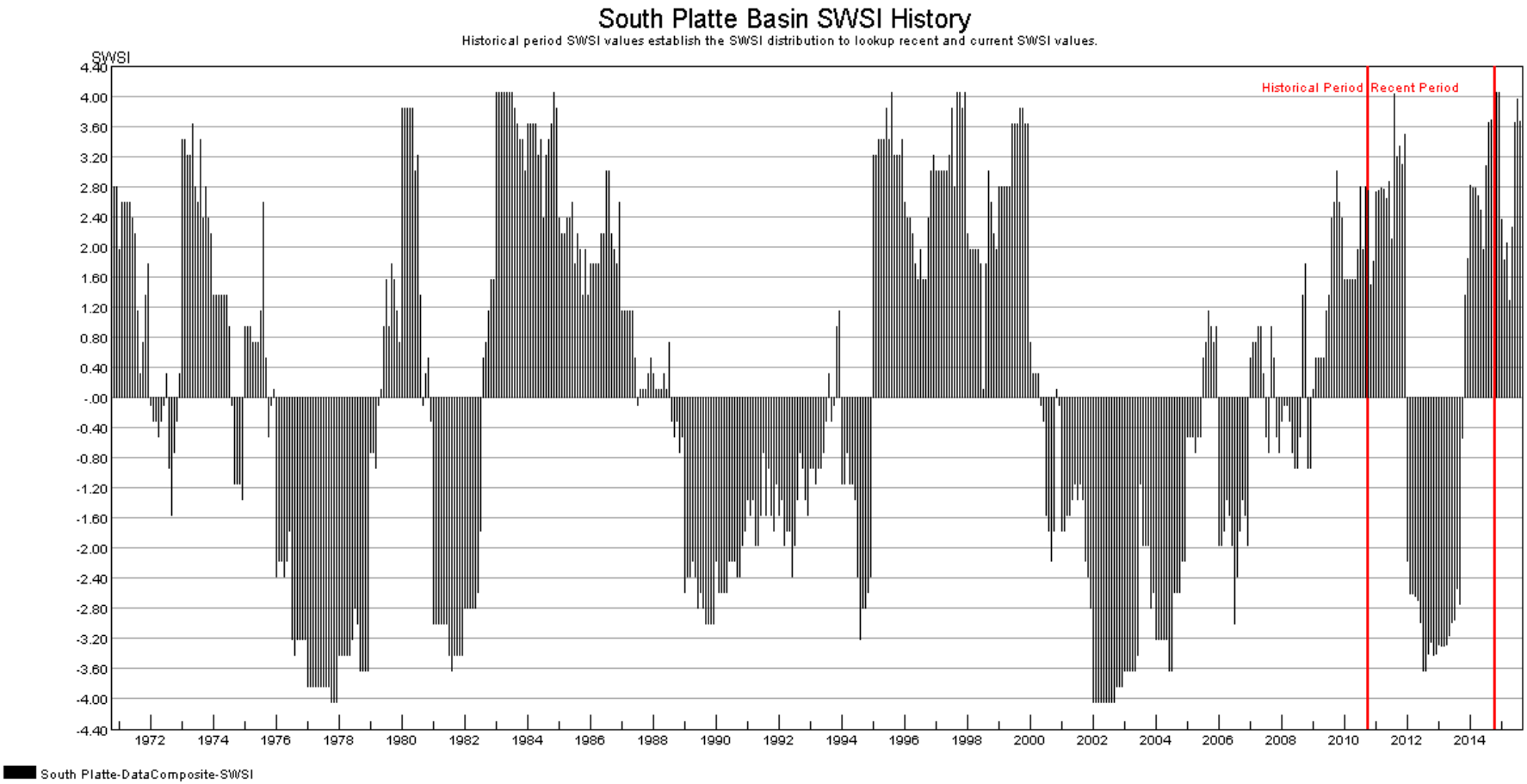
Precipitation over most of northeastern Colorado in August was below normal – though, of course, there were some areas of near to above normal precipitation. Temperatures over most of the area were slightly above normal in August, but the far northeastern corner of Colorado did see temperatures slightly cooler than normal.

As has become typical for Irrigation Year 2015, overall flows at the Kersey and Julesburg gages in August again displayed a somewhat unusual pattern. The flow at Kersey did exceed the flow at Julesburg (which is normal). However, the difference in actual numbers was small enough that it looked for a while like this could be another instance of the average monthly flow at Julesburg exceeding the flow at Kersey. The August Julesburg mean gage flow was 338 cfs or 189% of the long term August mean flow of 178 cfs. The overall August Kersey gage mean flow was 404 cfs or 81% of the long term August mean flow of 501 cfs.



Reservoir storage continues to be very good within the South Platte basin. The end of August overall storage was at approximately 81% of capacity. This compares to an overall average end of August storage of approximately 62% of capacity.




South Platte Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
4.40
4.00
3.60
3.20
2.80
2.40
2.00
1.60
1.20
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-3.20
-3.60
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Historical Period
Recent Period
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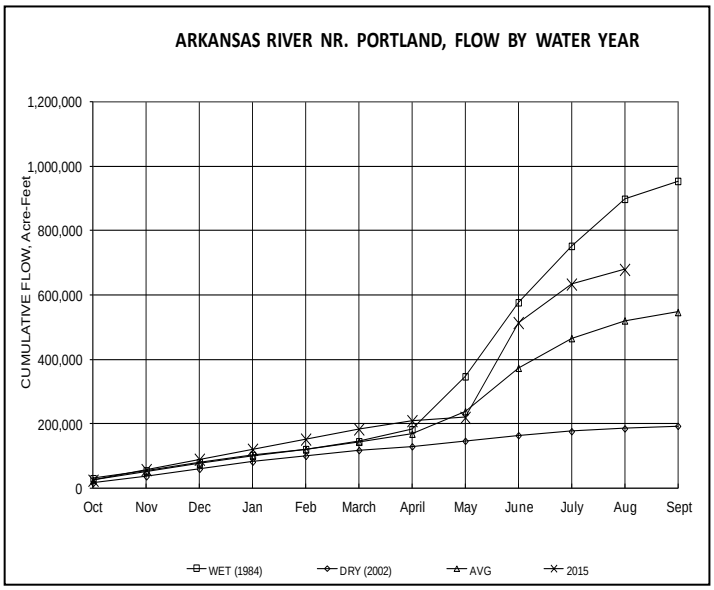
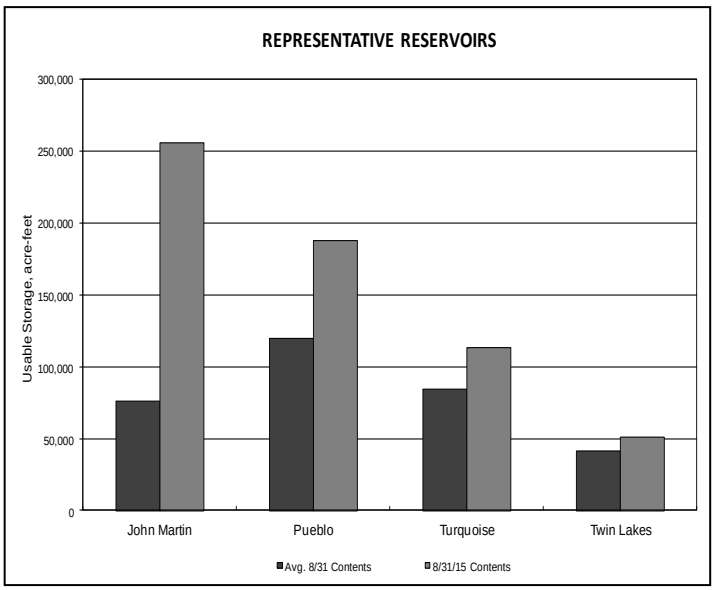
2014
South Platte-DataComposite-SWSI

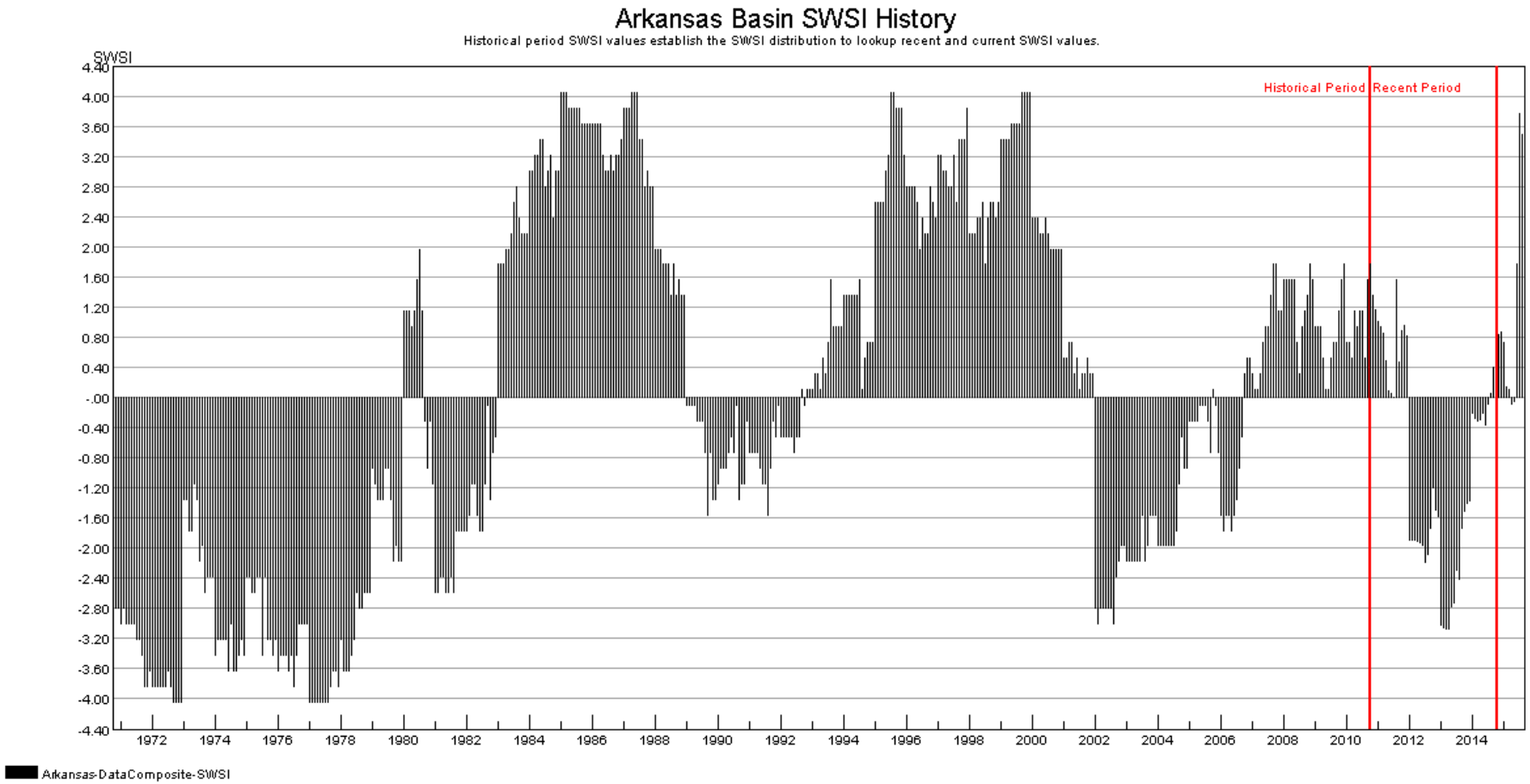
Basinwide Conditions Assessment

The SWSI value for the month was 2.6. River calls above the Fort Lyon Canal varied from the Fort Lyon Canal 3/1/1887 water right to short periods of Amity Canal's Great Plains storage right of 8/1/1896. Inflows into John Martin Reservoir were still controlled by the John Martin Reservoir storage right of 5/31/1949 while Conservation storage water continued to be distributed into accounts. It is anticipated that distribution into accounts will continue at least through September thereby preventing any call from below John Martin Reservoir against upstream junior water rights.

Kansas concluded a release of their account water from John Martin Reservoir, which began in late June, on August 12, 2015. The total release over the six week period was 65,839 acre-feet from the Kansas Section II account. Ending content in John Martin Reservoir still remained at 256,250 acre-feet at the end of August.






Arkansas Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
Historical Period
Recent Period
4.40
4.00
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2.40
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0.80
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-1.60
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-2.40
-2.80
-3.20
-3.60
-4.00
-4.40
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2014
Arkansas-DataComposite-SWSI

Basinwide Conditions Assessment

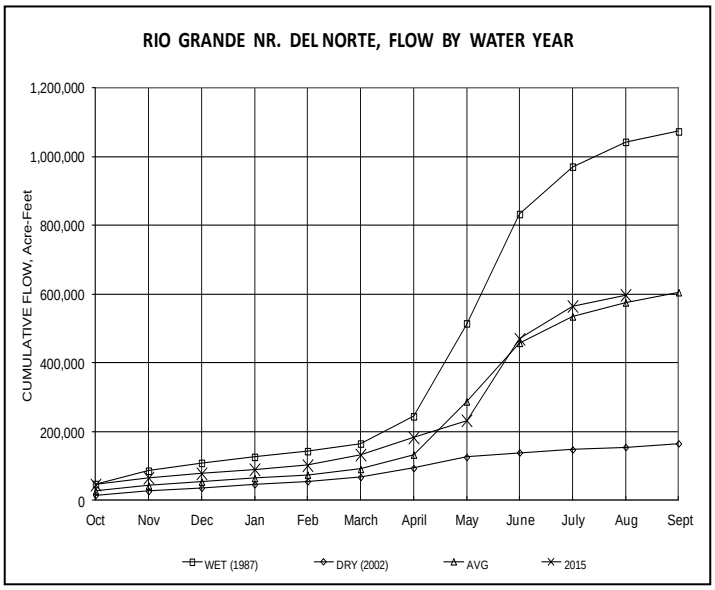
The SWSI value for the month was 1.2. Flow at the gaging station Rio Grande near Del Norte averaged 525 cfs (80% of normal). The Conejos River near Mogote had a mean flow of 187 cfs (87% of normal, buoyed heavily by direct flow storage releases from Platoro Reservoir). Stream flow in the northern areas of the upper Rio Grande Basin was near normal during August while the southern and eastern drainages of the Valley had only poor to fair runoff. LaGarita, Carnero, Saguache, and the northern Sangre de Cristo Mountain Creeks had enough rain to receive average or above August runoffs. Most other streams in the area flowed only 1/2 to 3/4 of normal during August.

August precipitation in Alamosa was only 0.50 inches, 0.77 inches below normal. Basinwide, the expectations for a wet August were not met.

The mean temperature at Alamosa for the month of August was 64.0 degrees, which is an average of 1.3 degrees above normal.

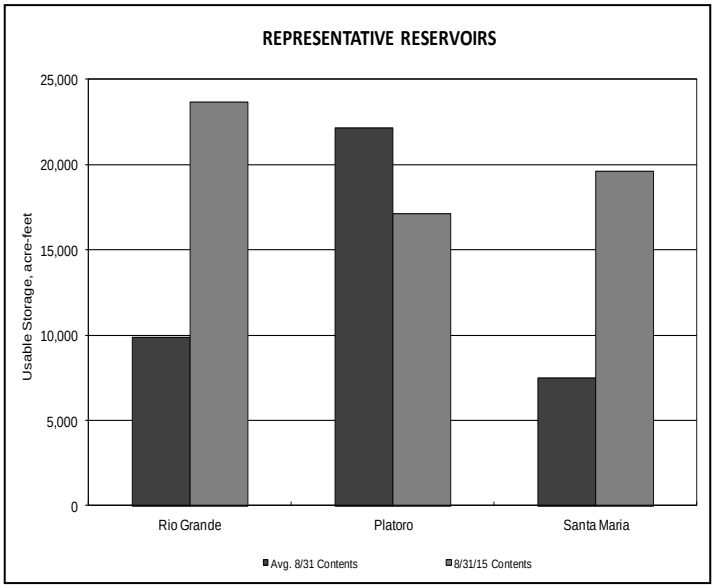
Outlook

The National Weather Service has issued a 90-day outlook that continues to predict above average precipitation for southern Colorado, Arizona, New Mexico, and Texas during September-October-November, 2015 and well beyond into the winter season. While all of the San Luis Valley would benefit from above normal snowpack this winter, the southern drainages need a break from continuing drought.



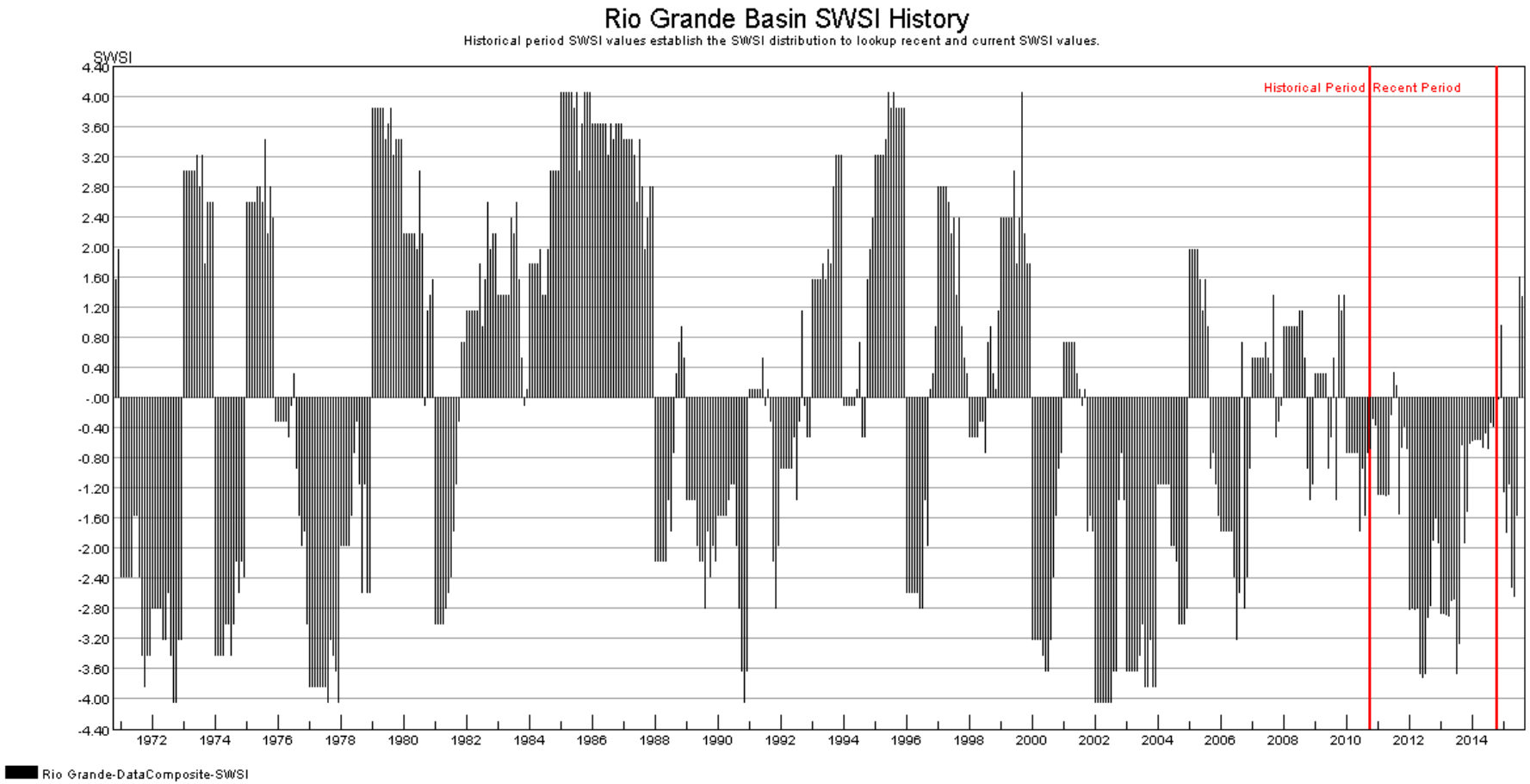
Administrative/Management Concerns

Despite the recent decline in streamflow, both the Rio Grande and Conejos Rivers produced much more water than was expected earlier in the year. The current estimate for the Rio Grande is an April-September total flow of over 560,000 acre-feet, which is about 110% of the long term average. The Conejos system annual total will be only about 77% of the historic average, but that's well above the June 1 forecast of 57%. Curtailment of native streamflow continues on the Rio Grande at 14%. There is no curtailment set on the Conejos at this time. That means all available native flow can be diverted by the ditches that are in priority.



Public Use Impact

The recent sunny and relatively dry weather has benefited those farmers and ranchers with native grass and alfalfa crops and the barley and potato crop harvest has gone very smoothly. Yields should be good, but prices have dropped some. Beaver Park Reservoir is slowly filling while Continental Reservoir remains empty for repair work.


Rio Grande Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
Historical Period
Recent Period
4.40
4.00
3.60
3.20
2.80
2.40
2.00
1.60
1.20
0.80
0.40
-.00
-0.40
-0.80
-1.20
-1.60
-2.00
-2.40
-2.80
-3.20
-3.60
-4.00
-4.40
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Rio Grande-DataComposite-SWSI

Basinwide Conditions Assessment

The SWSI value for the month was 2.2. August in the Gunnison basin was drier than the previous months, especially in the lower basin which received as low as 50% of the average precipitation. Upper basin areas fared better with close to average precipitation in the East River and Tomichi Creek basins. Even so, seasonal precipitation hovered around average for the entire Gunnison basin. Temperatures were also right around the average over the entire basin for the month.

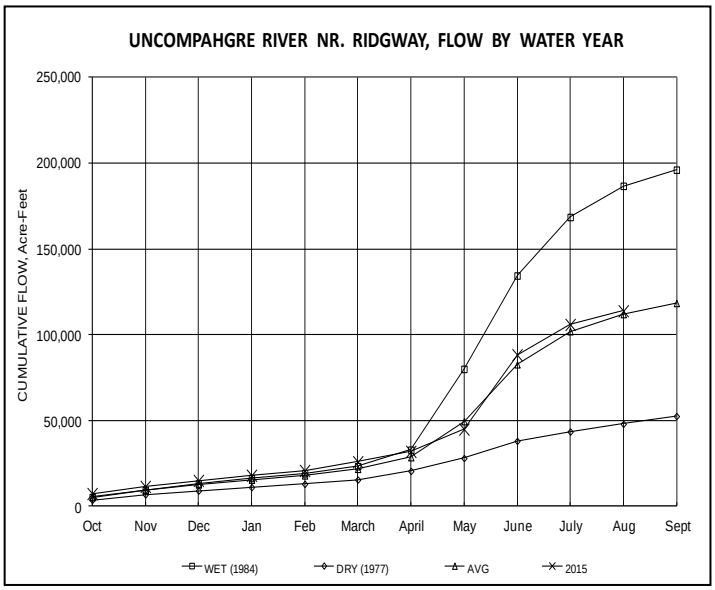
Streamflows finally dropped to normal levels later in the month with the decreased precipitation.

Outlook

The Gunnison basin falls within a large area of the southwest U.S. expected by the Climate Center to receive greater than average precipitation during the next three months. The current El Nino is one of the strongest on record for this time of year and is expected to continue. In the past this condition has produced more precipitation during the fall and spring, but not much during December through February in the Gunnison basin.

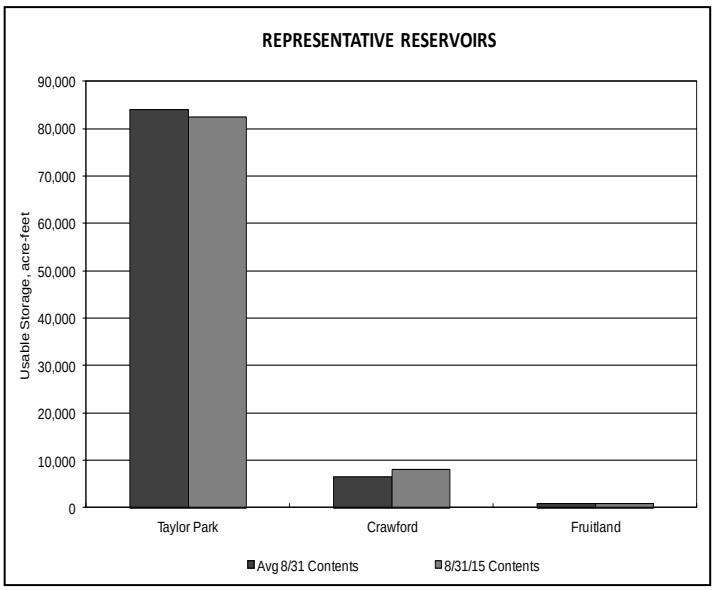
Administrative/Management Concerns

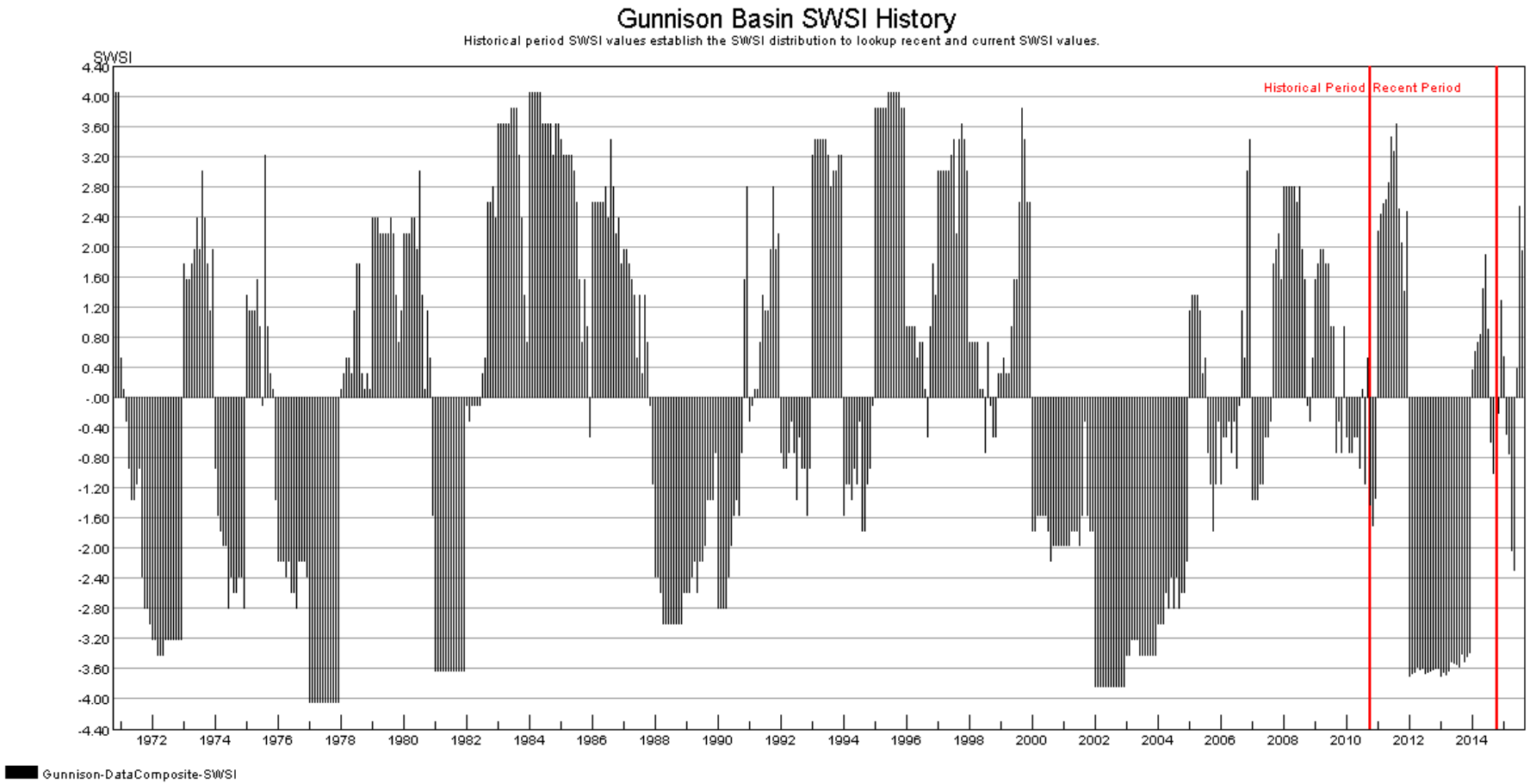
On August 18th, reservoir accounting kept by the Division of Water Resources showed that Gunnison Tunnel demand finally exceeded inflows into the Aspinall Unit, meaning that the 1,000 cfs Uncompahgre Valley Water Users began using some of the Taylor Park storage to fill the Tunnel. In only one other year since 2002 did we go farther into the year without using storage water. That year was 2006 where the first day of storage use was Sept. 3rd. Considering that 2006 was an above average snowpack year above Blue Mesa with 112% of the median peak snow water equivalent (SWE), it is incredible that with only 76% of the peak SWE in 2015 we lasted until August 18th without using any storage. All areas of the Gunnison have experienced a good year with less storage used than normal. The Surface Creek valley required less water from the close to 100 reservoirs on the Grand Mesa than in an average year and will therefore roll over an above average amount into the 2016 water year. As stated last month, this year demonstrates the huge impact of the cool and wet spring and early monsoon, even if a lot of the precipitation falls as rain instead of snow.



Pubic Use Impacts

Boaters experienced great rafting, kayaking conditions this summer with the extended flows. Haying is mostly complete, especially in the upper Gunnison above Blue Mesa, where they are now taking water mostly to grow a bit of pasture grass and wet their fields prior to winter.



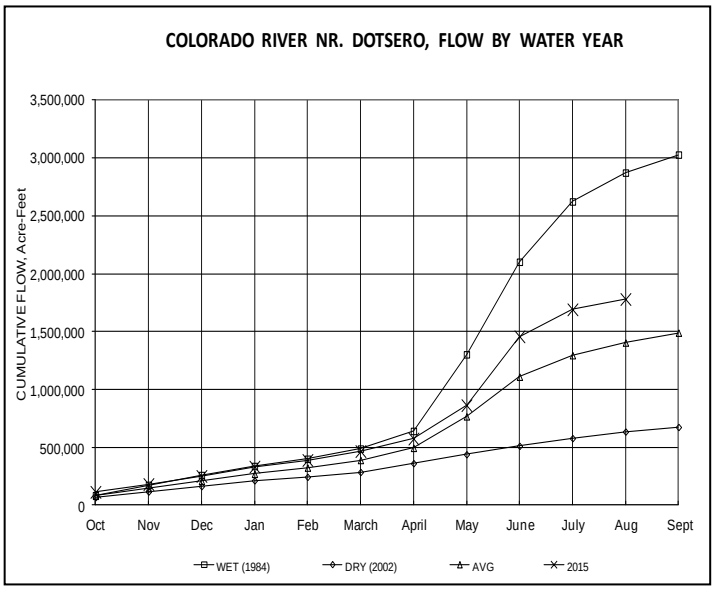

Gunnison Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
4.40
4.00
3.60
3.20
2.80
2.40
2.00
1.60
1.20
0.80
0.40
-.00
-0.40
-0.80
-1.20
-1.60
-2.00
-2.40
-2.80
-3.20
-3.60
-4.00
-4.40
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Gunnison-DataComposite-SWSI

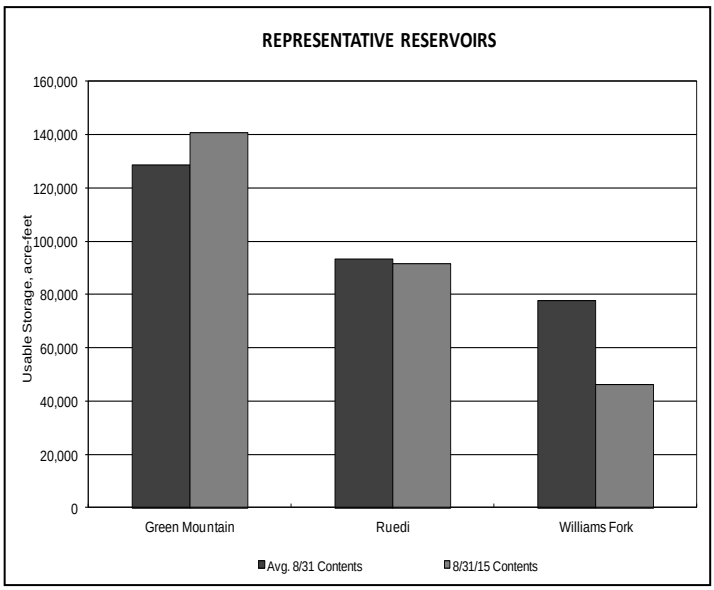
Basinwide Conditions Assessment
The SWSI value for the month was -0.3.

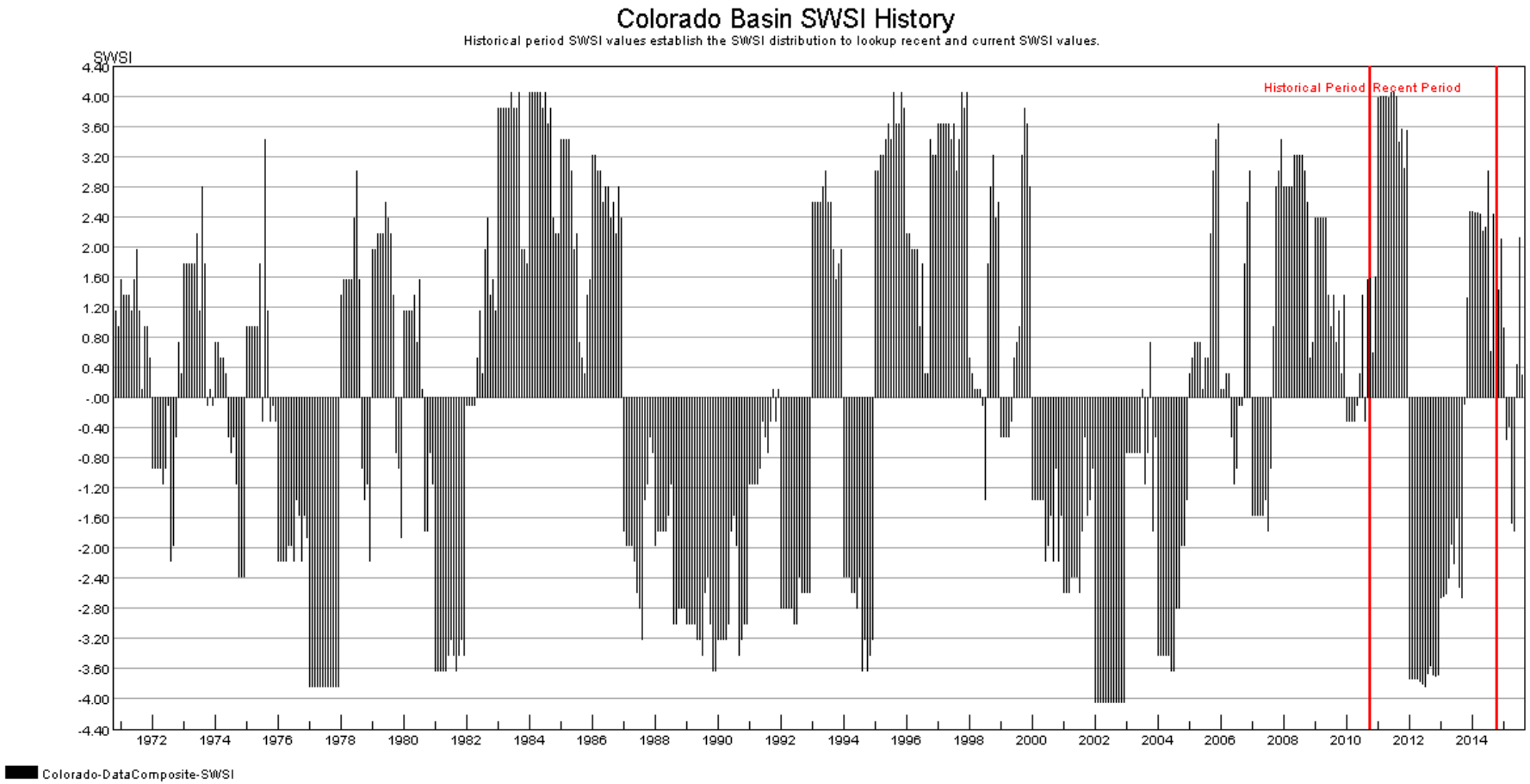
Outlook
Colorado River flows continue to fall to slightly above average to average with tributary flows running near or slightly below average throughout September. Average to below average precipitation with average temperature is forecast for western Colorado through September.

Administrative/Management Concerns
As of September 8, there is not a call on the Colorado River main stem, although the Shoshone Power Plant Protocol is in effect. Accordingly, Green Mountain Reservoir is releasing to meet inflow and HUP obligations. Grand Valley Irrigation diversions (Goverrnment Highline/Orchard Mesa Irrigation, Grand Valley Irrigation canals) continue at or near full capacity. Ruedi Reservoir outflow remains fairly steady as it bypasses inflows, and releases for contracts, replacement for Boustead Tunnel and fish recovery. Wolford Mountain exhausted its fish recovery pool.

Public Use Impacts
Pitkin County supported a $35,000 Healthy Rivers and Streams grant to help keep more water in the Roaring Fork River. Denver based Colorado Water Trust is spearheading a project to provide a pathway for water rights holders to leave more of their allocation in the river without being penalized, for the maximum benefit of the river.






Colorado Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
Historical Period
Recent Period
4.40
4.00
3.60
3.20
2.80
2.40
2.00
1.60
1.20
0.80
0.40
-.00
-0.40
-0.80
-1.20
-1.60
-2.00
-2.40
-2.80
-3.20
-3.60
-4.00
-4.40
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
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1998
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2002
2004
2006
2008
2010
2012
2014
Colorado-DataComposite-SWSI

Basinwide Conditions Assessment

The SWSI value for the month was 0.3. August precipitation was well below average in the Yampa, White, and North Platte River basins. Precipitation for the month, as measured at the SNOTEL sites operated by NRCS, was reported at 65% of average for the combined Yampa, White, and North Platte River basins. Total precipitation for the water year as a percent of average to date in the combined basins at the end of August slightly decreased to 89%.

Outlook

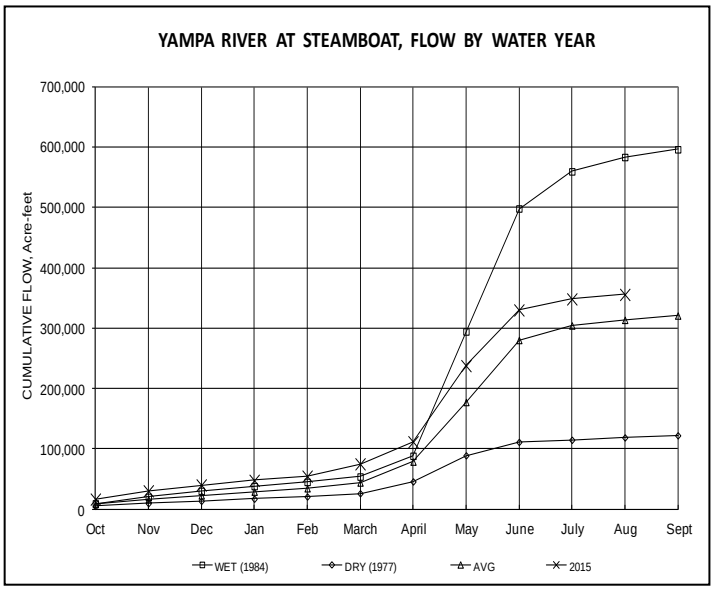
As of August 31st Fish Creek Reservoir was storing approximately 3,659 AF, 87% of capacity. The capacity of Fish Creek Reservoir is 4,167 AF. Yamcolo Reservoir was storing 7,916 AF at the end of August 2015. The capacity of Yamcolo Reservoir is 8,700 AF. On August 31st Elkhead Creek Reservoir was storing 23,347 AF. The capacity of Elkhead Creek Reservoir is 24,778 AF. On August 31tst, 2015; Stagecoach Reservoir was storing 35,600 AF which is 107% of capacity.

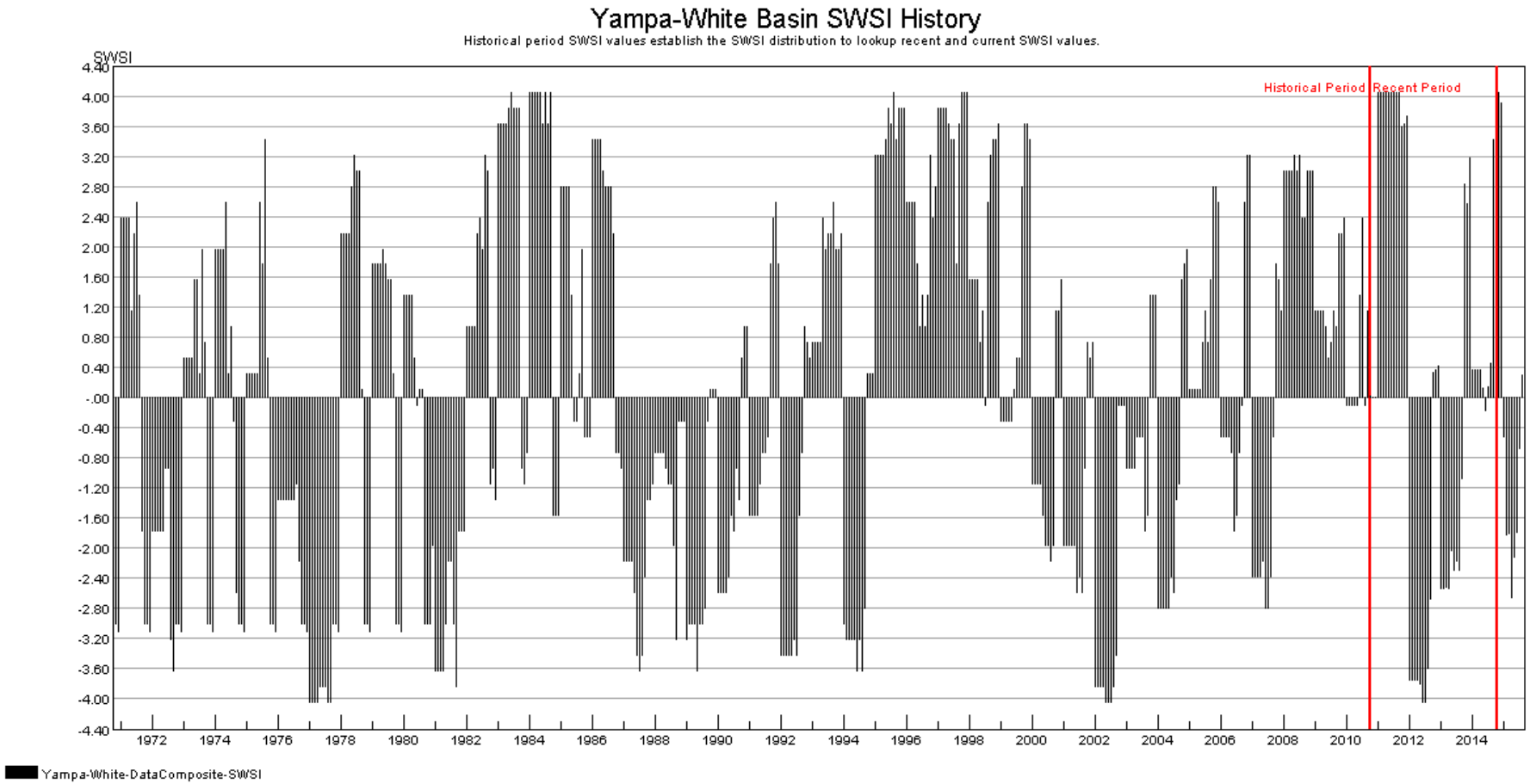
Water stored in Fish Creek Reservoir is used primarily for municipal purposes, Yamcolo Reservoir for irrigation purposes, and Elkhead Creek Reservoir for municipal, industrial, recreational, and fish recovery releases. Stagecoach Reservoir is primarily used for recreation though a significant amount of stored water is allocated for municipal, industrial, irrigation and augmentation uses.

Public Use Impacts

At Stagecoach State Park fishing from shore has steadily increased due to cooler weather and water temperatures dropping. Anglers are still catching a fair amount of fish. Many anglers at the headwaters have been catching Rainbow trout. Fly fishing at the Tail Waters has been steady with anglers catching lots of trout

At Steamboat Lake State Park the water is warming up so shore fishing is slowing down, evening and early morning has been better, the streams have slowed down. Boat fishermen are doing well.




Yampa-White Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
Historical Period
Recent Period
4.40
4.00
3.60
3.20
2.80
2.40
2.00
1.60
1.20
0.80
0.40
-.00
-0.40
-0.80
-1.20
-1.60
-2.00
-2.40
-2.80
-3.20
-3.60
-4.00
-4.40
1972
1974
1976
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1982
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1986
1988
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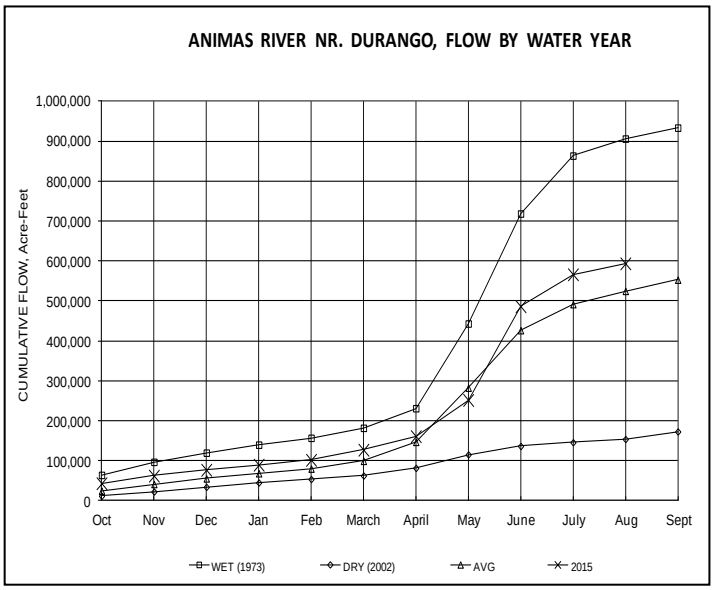
1998
2000
2002
2004
2006
2008
2010
2012
2014
Yampa-White-DataComposite-SWSI

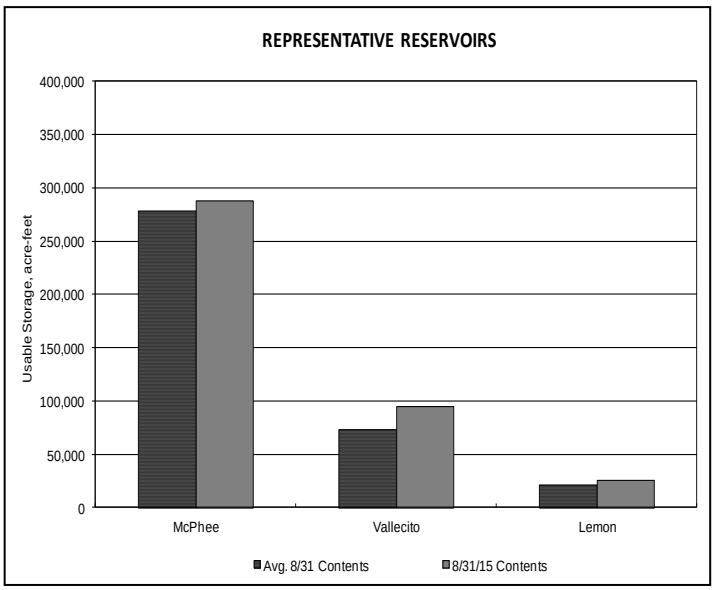
Basinwide Conditions Assessment

The SWSI value for the month was 1.2. Flow at the Animas River at Durango averaged 446 cfs (78% of average). The flow at the Dolores River at Dolores averaged 132 cfs (54% of average). The La Plata River at Hesperus averaged 7.7 cfs (34% of average). Precipitation in Durango was 1.70 inches for the month, 66% of the 30-year average of 2.59 inches. Precipitation was the 76 highest amount recorded in August, in Durango, out of 121 years of record. Precipitation to date in Durango, for the water year, is 18.94 inches, 109% of the 30-year average of 17.44 inches. End of last month precipitation to date, for the water year was 114% of average. The average high and low temperatures for the month of August in Durango were 86o and 52o. In comparison, the 30-year average high and low for the month is 84o and 52o. At the end of the month Vallecito Reservoir contained 94,741 acre-feet compared to its average content of 70,007 acre-feet (135% of average). McPhee Reservoir was up to 287,844 acre-feet compared to its average content of 283,864 (101% of average), while Lemon Reservoir was up to 25,280 acre-feet as compared to its average content of 21,332 acre-feet (119% of average).

Outlook

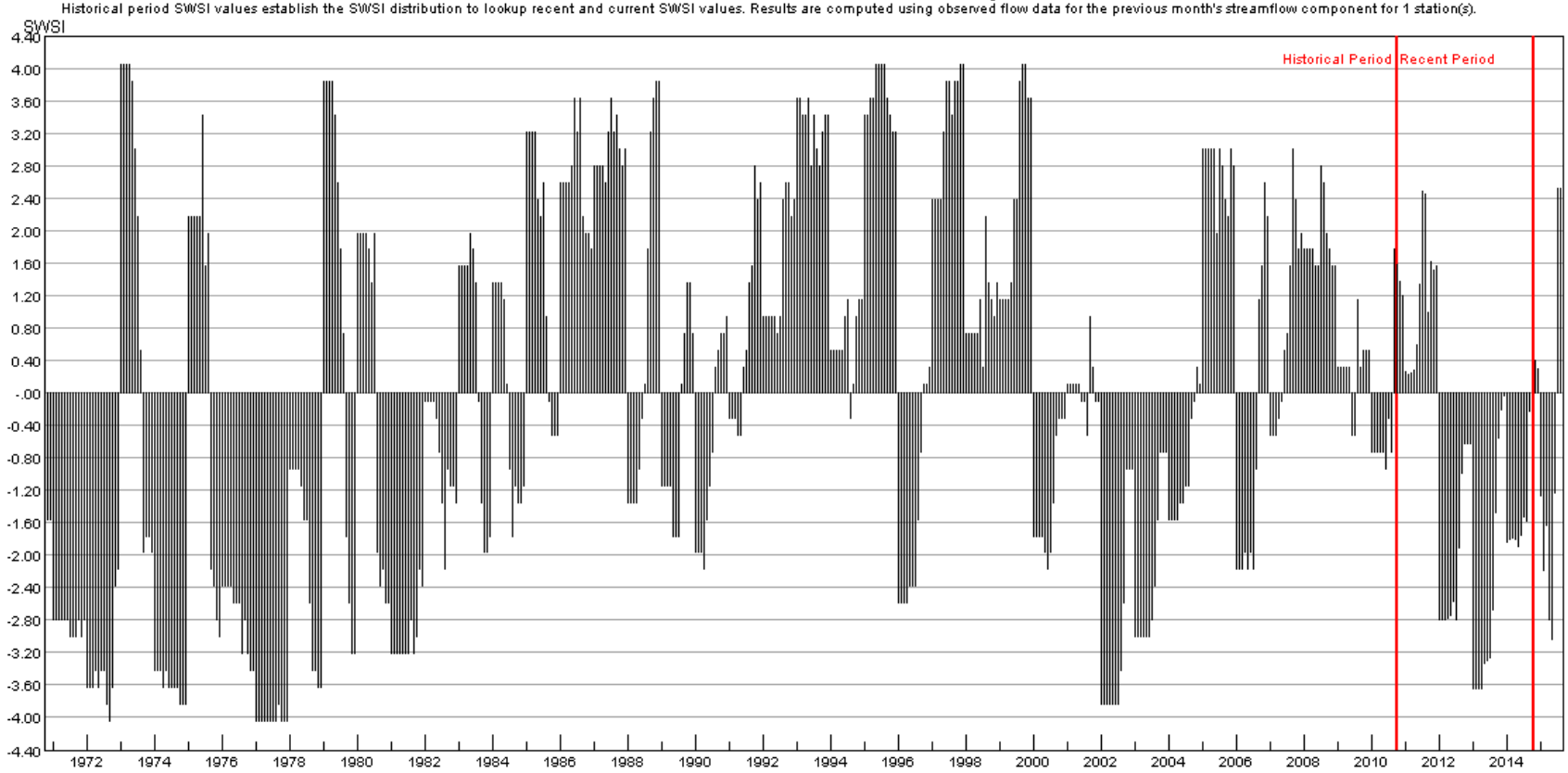
Precipitation (1.70 inches) was below average for August in Durango. There were 76 years out of 121 years of record where there was more precipitation than this year. Flows in the rivers within the basin fell below average for the month. There were 64 out of 104 years of record where the total flow past the Animas River at Durango stream gauge was more than this year. There were 85 out of 105 years of record where the total flow past the Dolores stream gauge was more than this year and 92 out of 99 years of record where the total flow past the La Plata River at Hesperus gauge was more than this year.





San Juan-Dolores Basin SWSI History

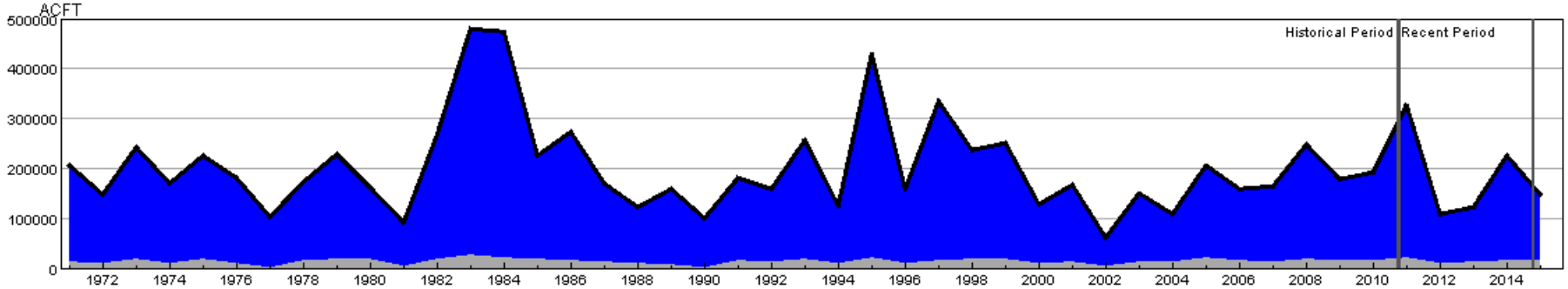
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values. Results are computed using observed flow data for the previous month's streamflow component for 1 station(s).



San Juan-Dolores-DataComposite-SWSI

HUC 14010005 (Colorado Headwaters-Plateau) Surface Water Supply - SEP

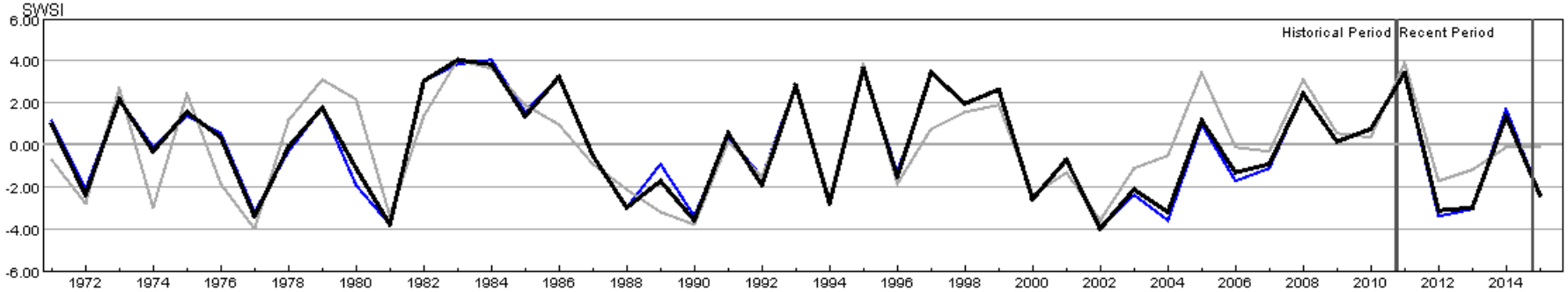
Monthly component volumes



HUC:14010005-SEP-DataComposite
HUC:14010005-SEP-PrevMoStreamflow
HUC:14010005-SEP-ForecastedRunoff
HUC:14010005-SEP-ReservoirStorage

HUC 14010005 (Colorado Headwaters-Plateau) SWSI Values - SEP

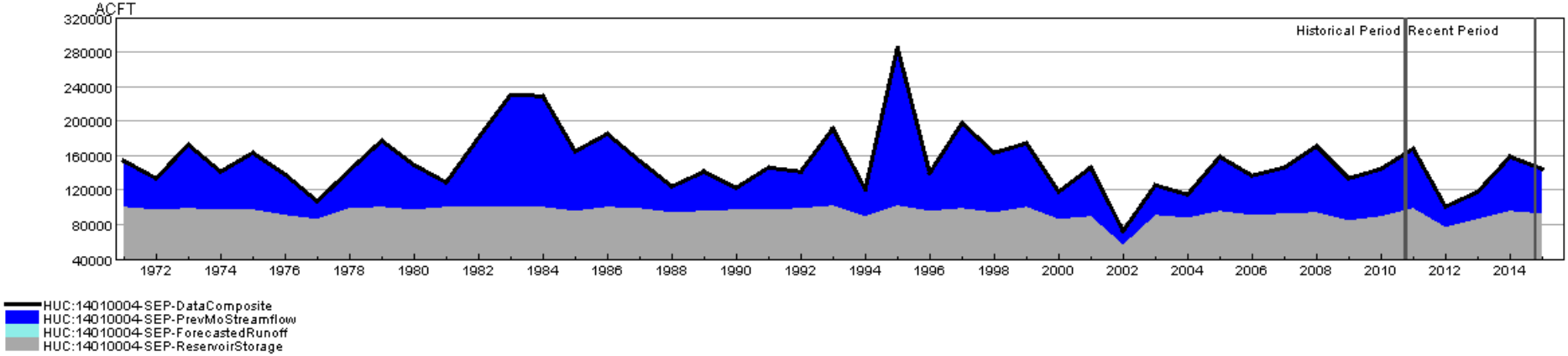
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14010005-SEP-PrevMoStreamflow-SWSI
HUC:14010005-SEP-ForecastedRunoff-SWSI
HUC:14010005-SEP-ReservoirStorage-SWSI
HUC:14010005-SEP-DataComposite-SWSI

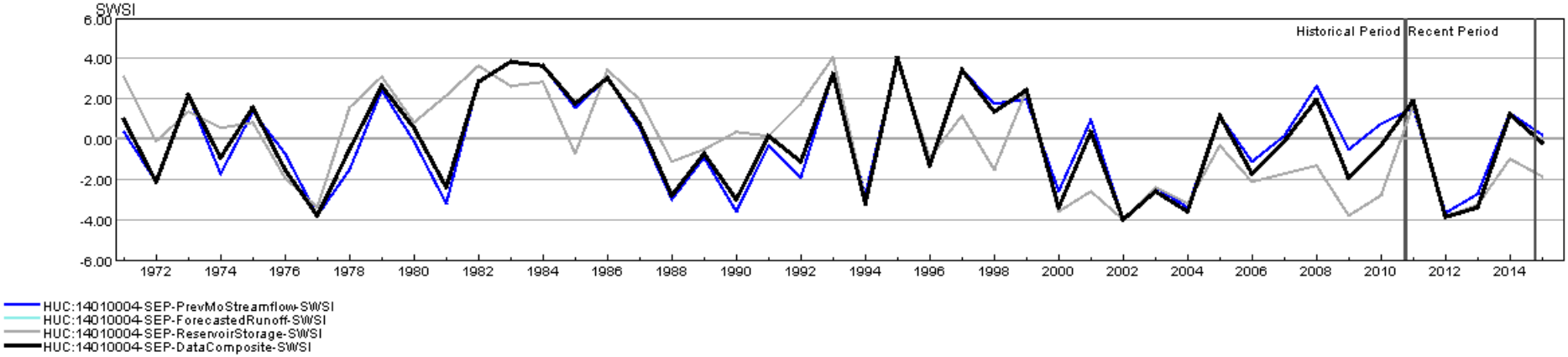
HUC 14010004 (Roaring Fork) Surface Water Supply - SEP

Monthly component volumes



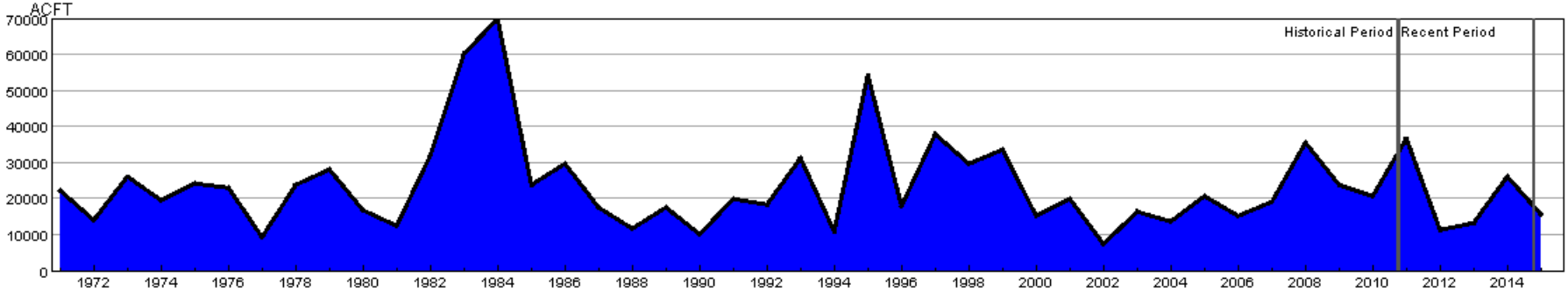
HUC 14010004 (Roaring Fork) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14010003 (Eagle) Surface Water Supply - SEP

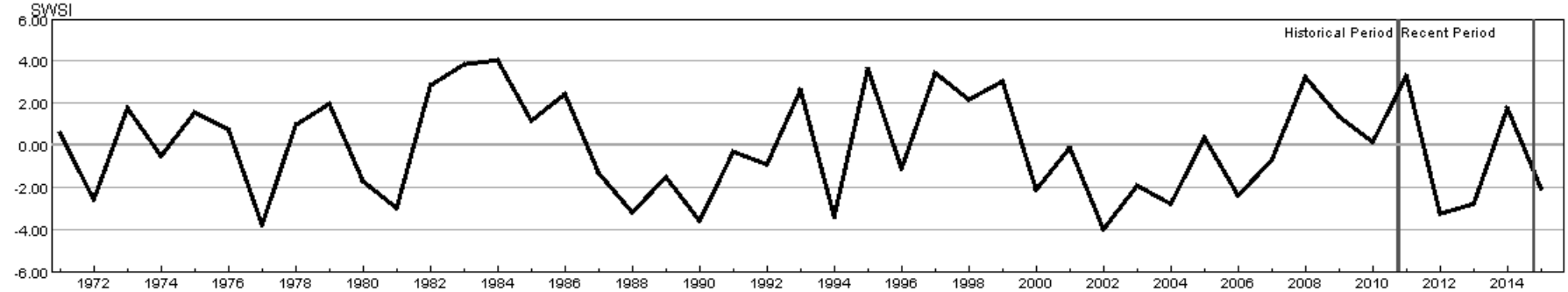
Monthly component volumes



HUC:14010003-SEP-DataComposite
HUC:14010003-SEP-PrevMoStreamflow
HUC:14010003-SEP-ForecastedRunoff
HUC:14010003-SEP-ReservoirStorage

HUC 14010003 (Eagle) SWSI Values - SEP

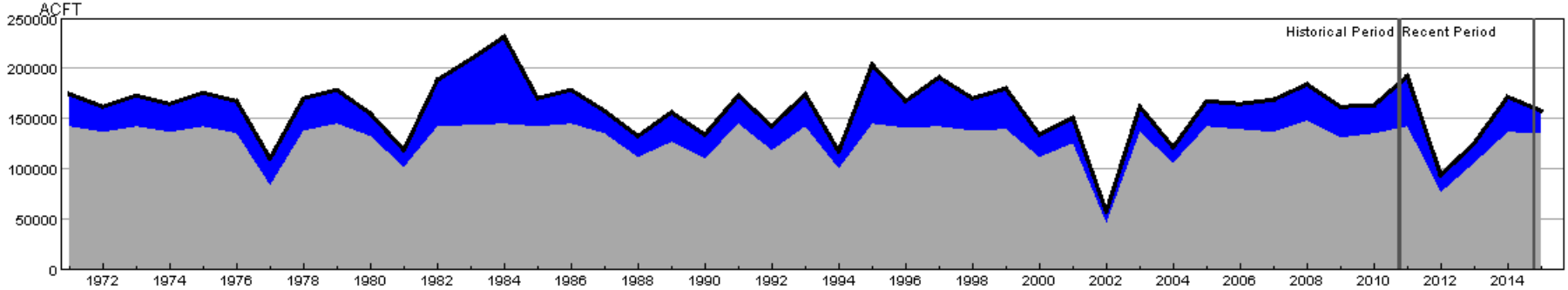
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14010003-SEP-PrevMoStreamflow-SWSI
HUC:14010003-SEP-ForecastedRunoff-SWSI
HUC:14010003-SEP-ReservoirStorage-SWSI
HUC:14010003-SEP-DataComposite-SWSI

HUC 14010002 (Blue) Surface Water Supply - SEP

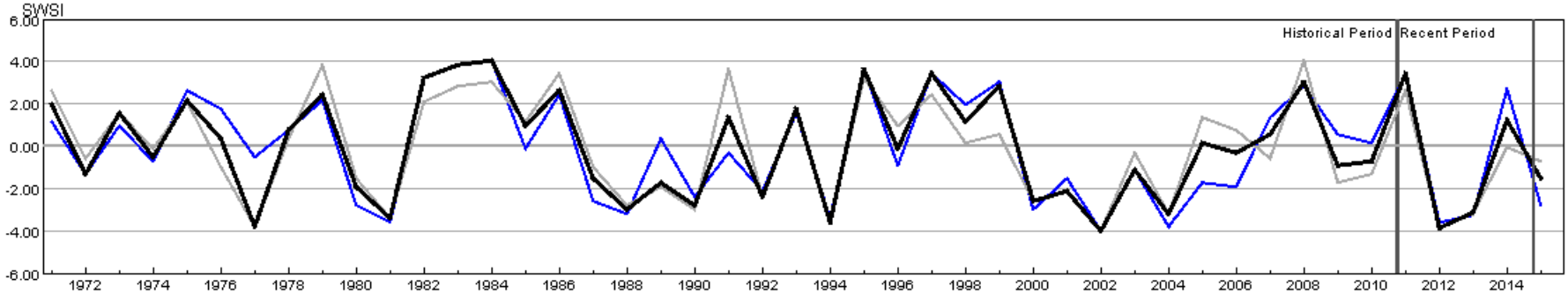
Monthly component volumes



HUC:14010002-SEP-DataComposite
HUC:14010002-SEP-PrevMoStreamflow
HUC:14010002-SEP-ForecastedRunoff
HUC:14010002-SEP-ReservoirStorage

HUC 14010002 (Blue) SWSI Values - SEP

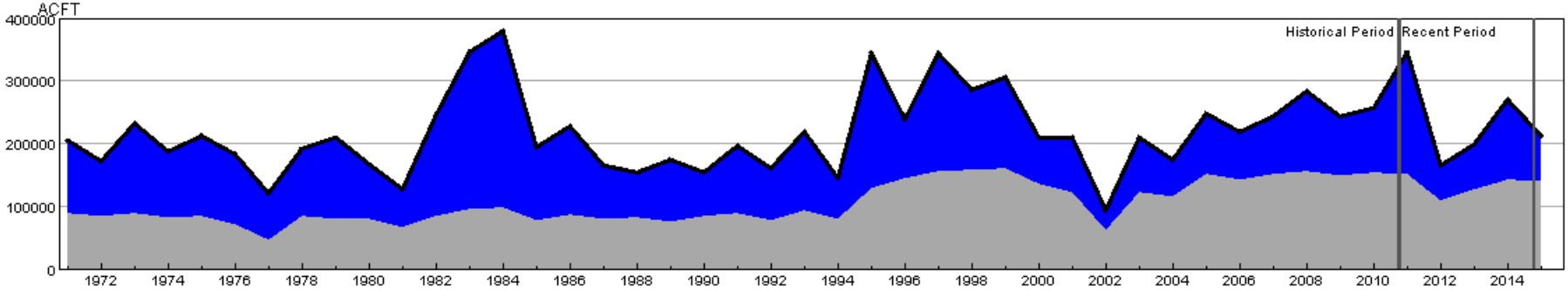
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14010002-SEP-PrevMoStreamflow-SWSI
HUC:14010002-SEP-ForecastedRunoff-SWSI
HUC:14010002-SEP-ReservoirStorage-SWSI
HUC:14010002-SEP-DataComposite-SWSI

HUC 14010001 (Colorado Headwaters) Surface Water Supply - SEP

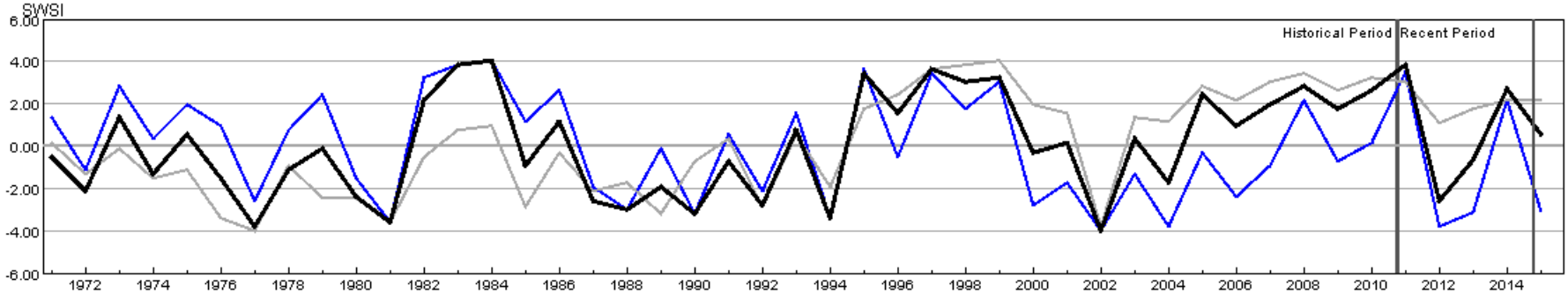
Monthly component volumes



HUC:14010001-SEP-DataComposite
HUC:14010001-SEP-PrevMoStreamflow
HUC:14010001-SEP-ForecastedRunoff
HUC:14010001-SEP-ReservoirStorage

HUC 14010001 (Colorado Headwaters) SWSI Values - SEP

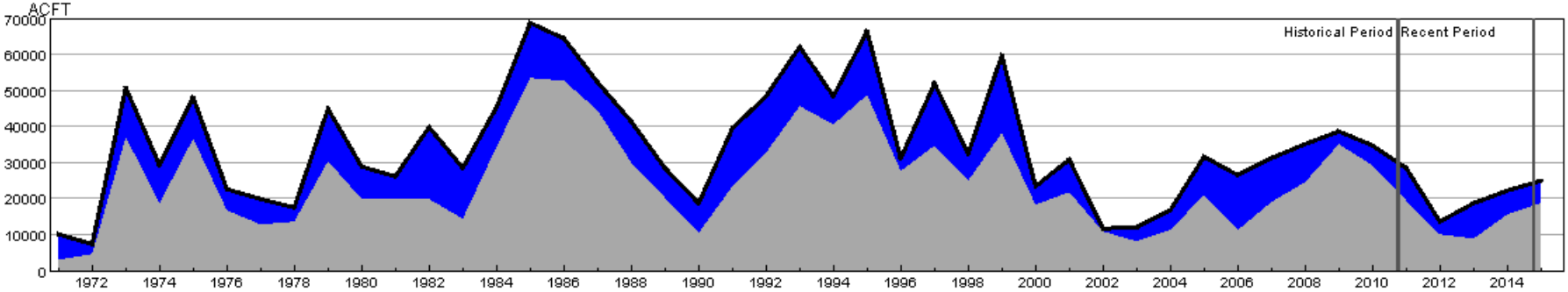
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14010001-SEP-PrevMoStreamflow-SWSI
HUC:14010001-SEP-ForecastedRunoff-SWSI
HUC:14010001-SEP-ReservoirStorage-SWSI
HUC:14010001-SEP-DataComposite-SWSI

HUC 13010005 (Conejos) Surface Water Supply - SEP

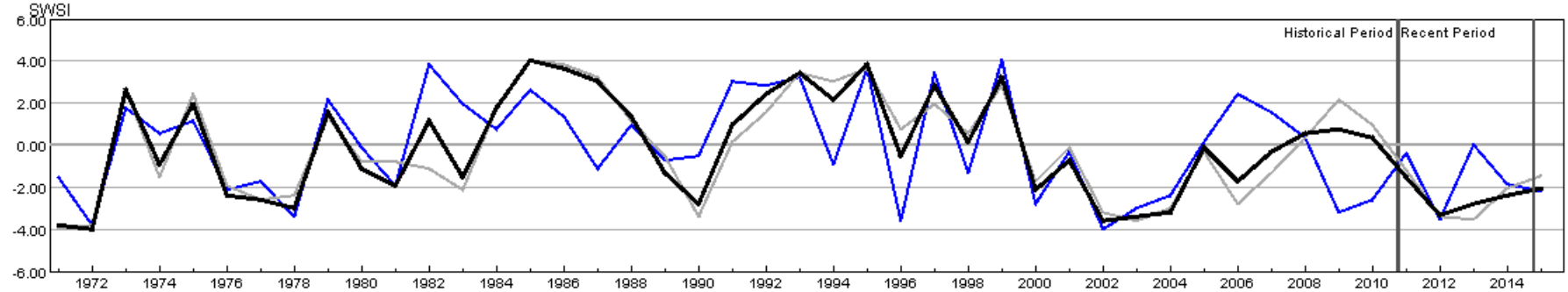
Monthly component volumes



HUC:13010005-SEP-DataComposite
HUC:13010005-SEP-PrevMoStreamflow
HUC:13010005-SEP-ForecastedRunoff
HUC:13010005-SEP-ReservoirStorage

HUC 13010005 (Conejos) SWSI Values - SEP

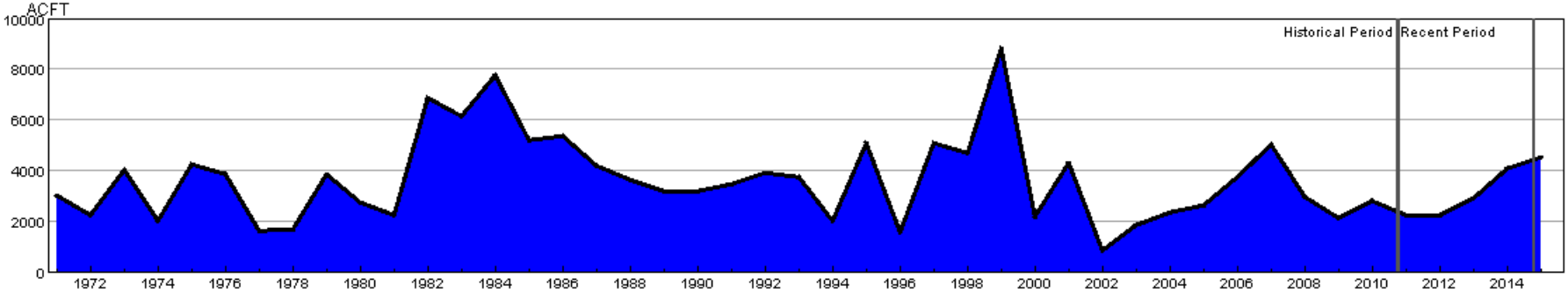
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:13010005-SEP-PrevMoStreamflow-SWSI
HUC:13010005-SEP-ForecastedRunoff-SWSI
HUC:13010005-SEP-ReservoirStorage-SWSI
HUC:13010005-SEP-DataComposite-SWSI

HUC 13010004 (Saguache) Surface Water Supply - SEP

Monthly component volumes



HUC:13010004-SEP-DataComposite
HUC:13010004-SEP-PrevMoStreamflow
HUC:13010004-SEP-ForecastedRunoff
HUC:13010004-SEP-ReservoirStorage

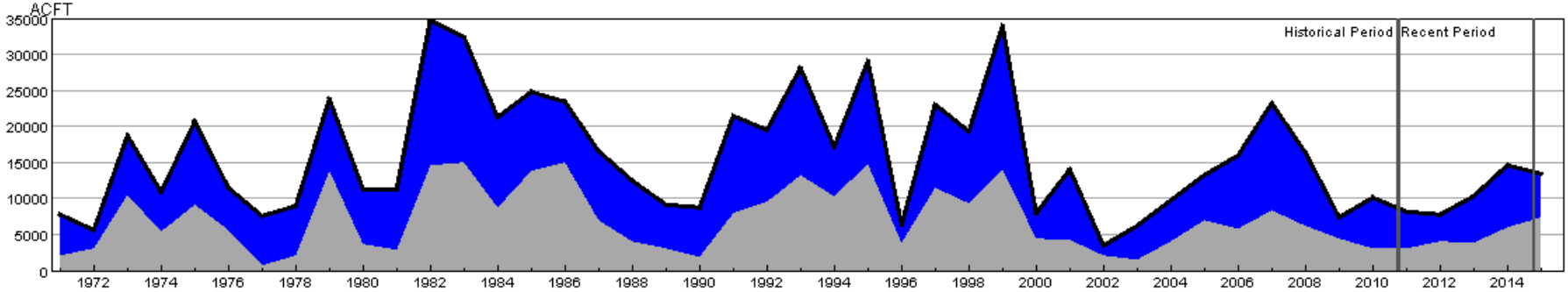
HUC 13010004 (Saguache) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.

HUC:13010004-SEP-PrevMoStreamflow-SWSI
HUC:13010004-SEP-ForecastedRunoff-SWSI
HUC:13010004-SEP-ReservoirStorage-SWSI
HUC:13010004-SEP-DataComposite-SWSI

HUC 13010002 (Alamosa-Trinchera) Surface Water Supply - SEP

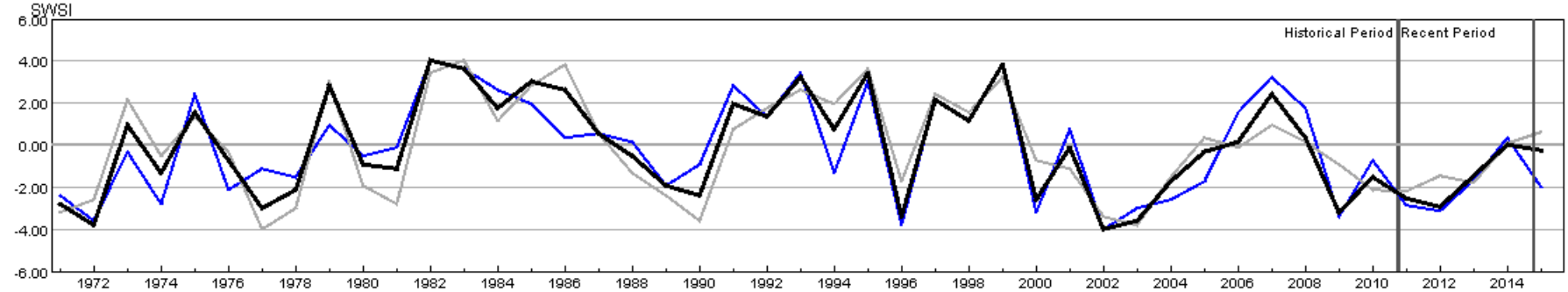
Monthly component volumes



HUC:13010002-SEP-DataComposite
HUC:13010002-SEP-PrevMoStreamflow
HUC:13010002-SEP-ForecastedRunoff
HUC:13010002-SEP-ReservoirStorage

HUC 13010002 (Alamosa-Trinchera) SWSI Values - SEP

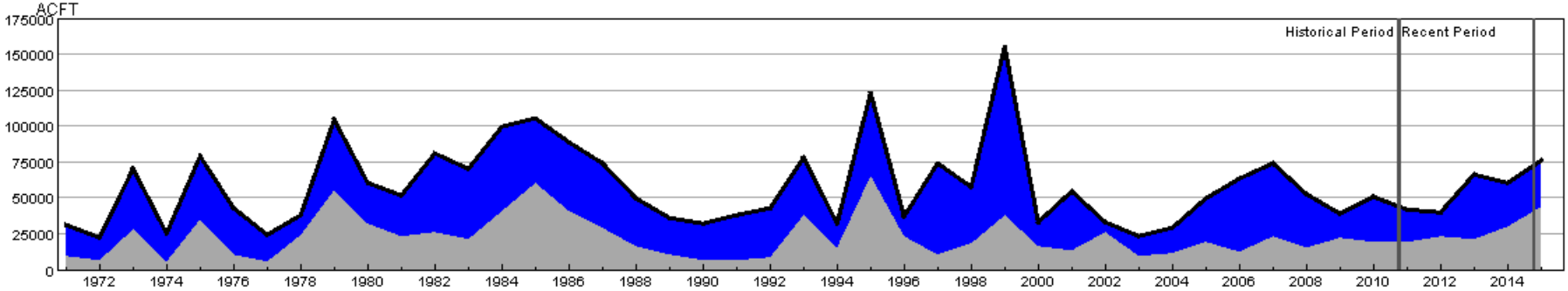
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:13010002-SEP-PrevMoStreamflow-SWSI
HUC:13010002-SEP-ForecastedRunoff-SWSI
HUC:13010002-SEP-ReservoirStorage-SWSI
HUC:13010002-SEP-DataComposite-SWSI

HUC 13010001 (Rio Grande Headwaters) Surface Water Supply - SEP

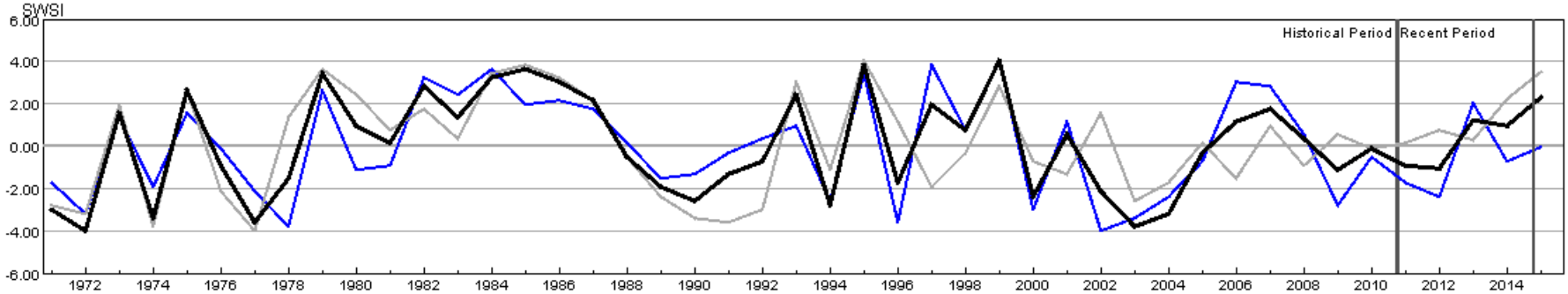
Monthly component volumes



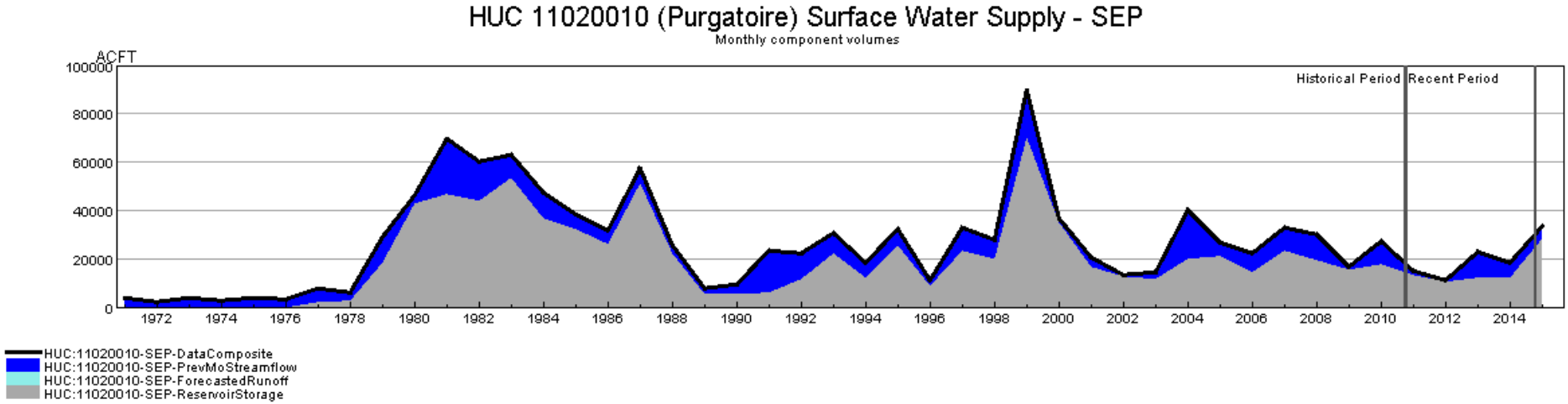
HUC:13010001-SEP-DataComposite
HUC:13010001-SEP-PrevMoStreamflow
HUC:13010001-SEP-ForecastedRunoff
HUC:13010001-SEP-ReservoirStorage

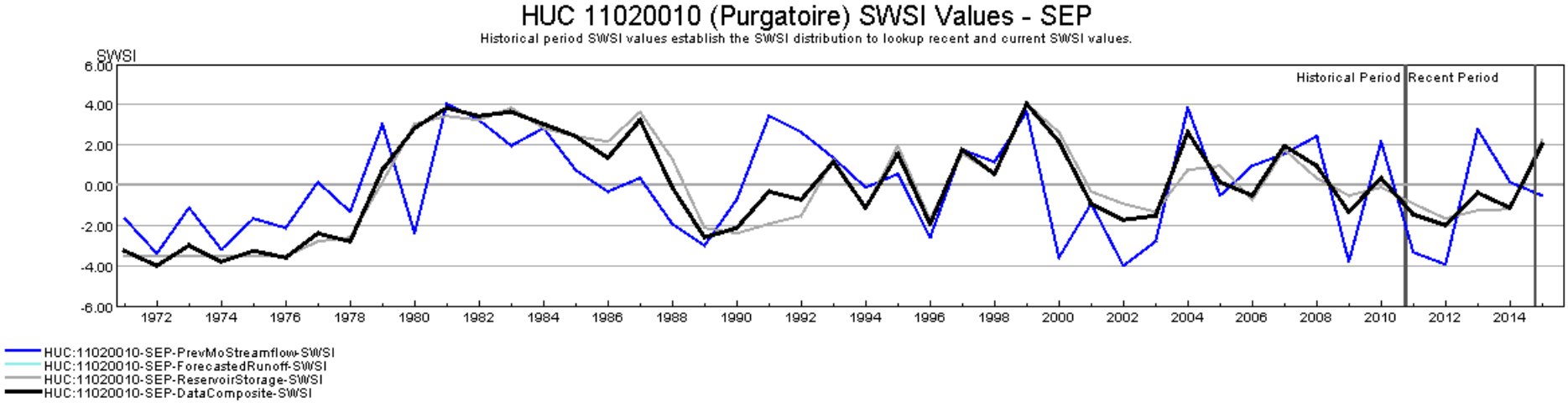
HUC 13010001 (Rio Grande Headwaters) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



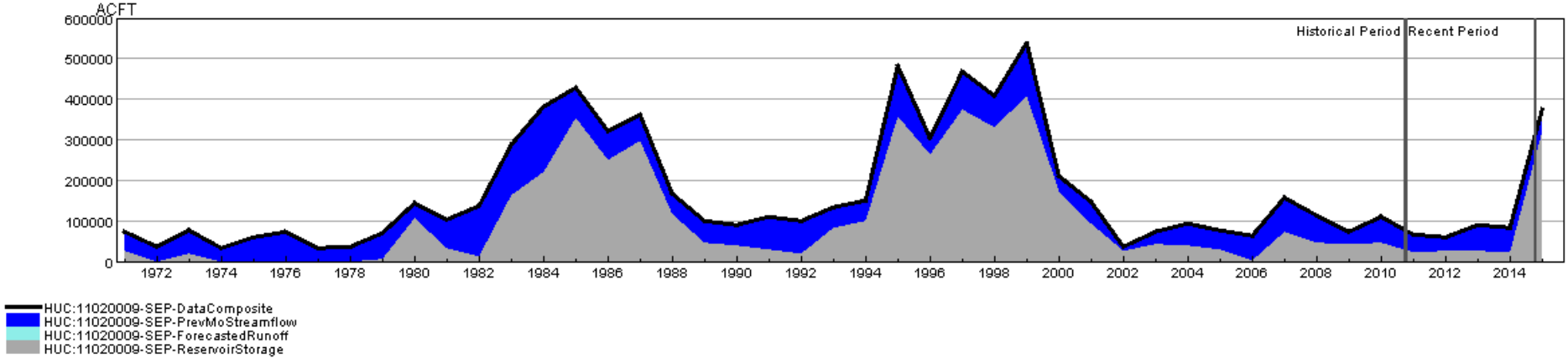
HUC:13010001-SEP-PrevMoStreamflow-SWSI
HUC:13010001-SEP-ForecastedRunoff-SWSI
HUC:13010001-SEP-ReservoirStorage-SWSI
HUC:13010001-SEP-DataComposite-SWSI


HUC 11020010 (Purgatoire) Surface Water Supply - SEP
Monthly component volumes
ACFT
100000
80000
60000
40000
20000
0
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:11020010-SEP-DataComposite
HUC:11020010-SEP-PrevMoStreamflow
HUC:11020010-SEP-ForecastedRunoff
HUC:11020010-SEP-ReservoirStorage


HUC 11020010 (Purgatoire) SWSI Values - SEP
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:11020010-SEP-PrevMoStreamflow-SWSI
HUC:11020010-SEP-ForecastedRunoff-SWSI
HUC:11020010-SEP-ReservoirStorage-SWSI
HUC:11020010-SEP-DataComposite-SWSI

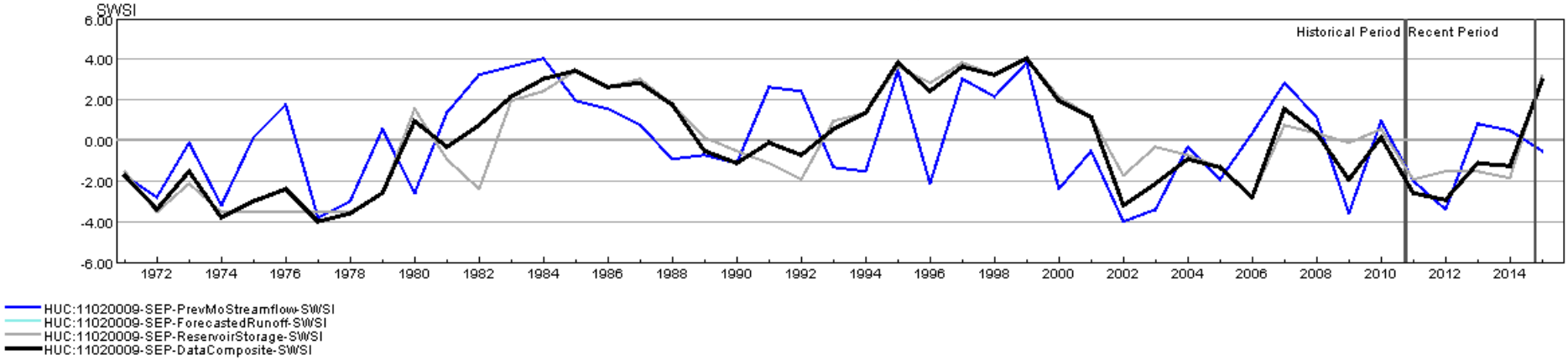
HUC 11020009 (Upper Arkansas-John Martin Reservoir) Surface Water Supply - SEP

Monthly component volumes



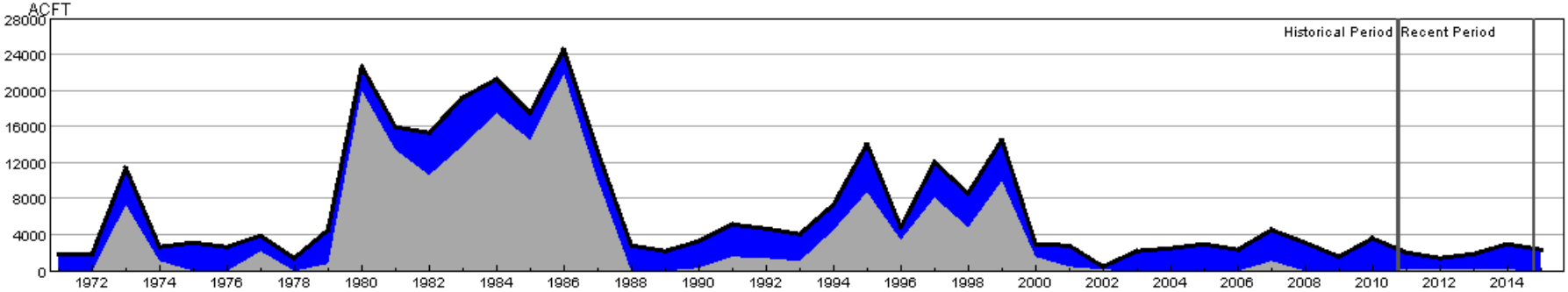
HUC 11020009 (Upper Arkansas-John Martin Reservoir) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 11020006 (Huerfano) Surface Water Supply - SEP

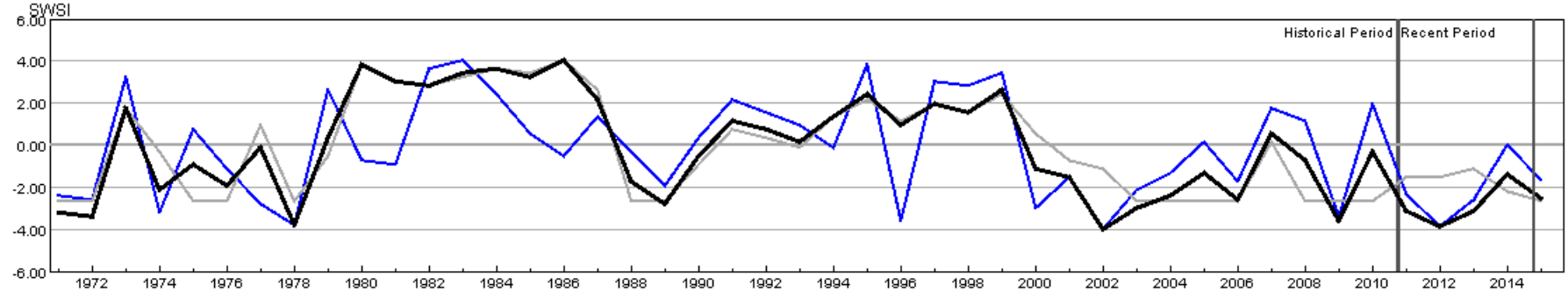
Monthly component volumes



HUC:11020006-SEP-DataComposite
HUC:11020006-SEP-PrevMoStreamflow
HUC:11020006-SEP-ForecastedRunoff
HUC:11020006-SEP-ReservoirStorage

HUC 11020006 (Huerfano) SWSI Values - SEP

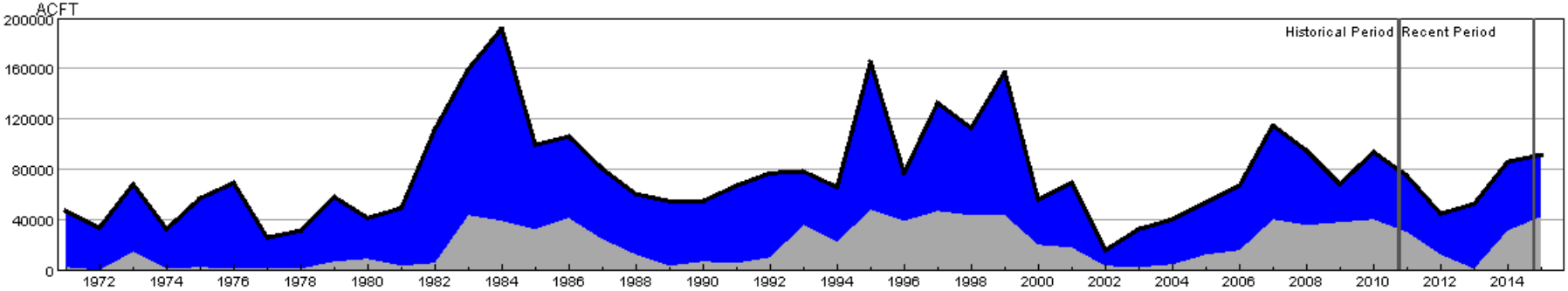
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:11020006-SEP-PrevMoStreamflow-SWSI
HUC:11020006-SEP-ForecastedRunoff-SWSI
HUC:11020006-SEP-ReservoirStorage-SWSI
HUC:11020006-SEP-DataComposite-SWSI

HUC 11020005 (Upper Arkansas-Lake Meredith) Surface Water Supply - SEP

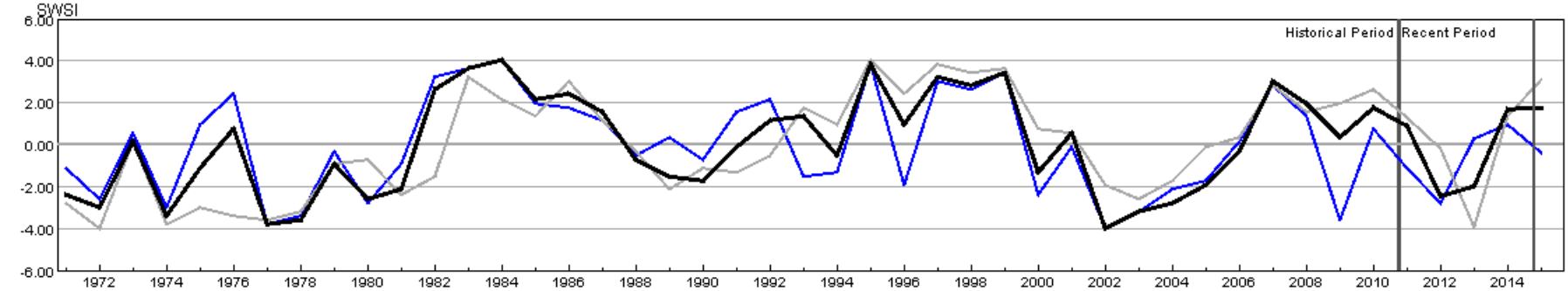
Monthly component volumes



HUC:11020005-SEP-DataComposite
HUC:11020005-SEP-PrevMoStreamflow
HUC:11020005-SEP-ForecastedRunoff
HUC:11020005-SEP-ReservoirStorage

HUC 11020005 (Upper Arkansas-Lake Meredith) SWSI Values - SEP

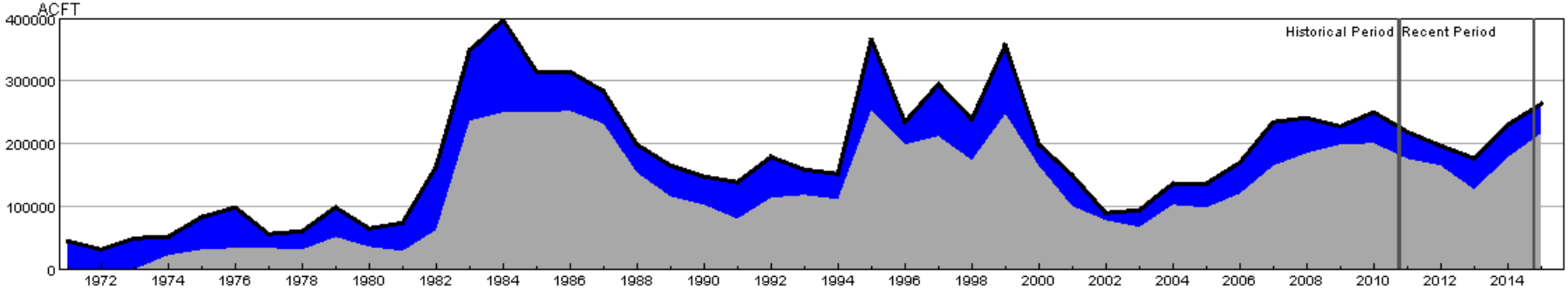
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:11020005-SEP-PrevMoStreamflow-SWSI
HUC:11020005-SEP-ForecastedRunoff-SWSI
HUC:11020005-SEP-ReservoirStorage-SWSI
HUC:11020005-SEP-DataComposite-SWSI

HUC 11020002 (Upper Arkansas) Surface Water Supply - SEP

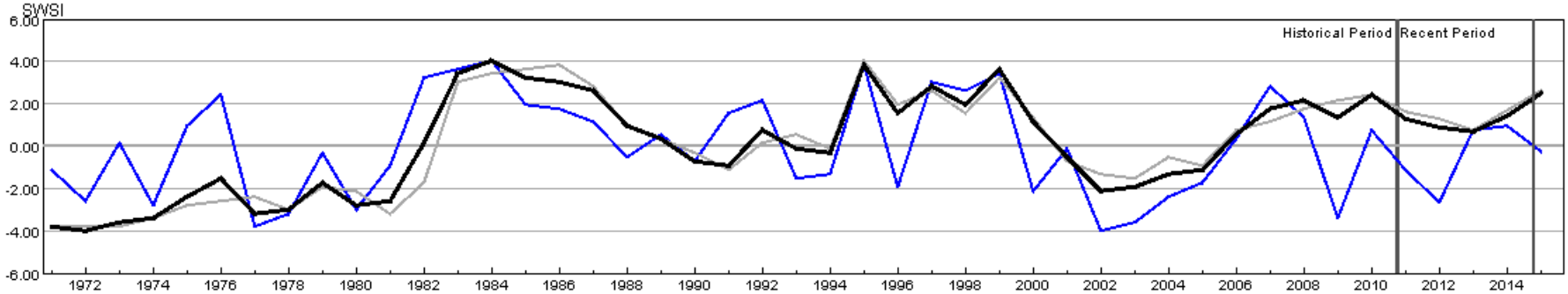
Monthly component volumes



HUC:11020002-SEP-DataComposite
HUC:11020002-SEP-PrevMoStreamflow
HUC:11020002-SEP-ForecastedRunoff
HUC:11020002-SEP-ReservoirStorage

HUC 11020002 (Upper Arkansas) SWSI Values - SEP

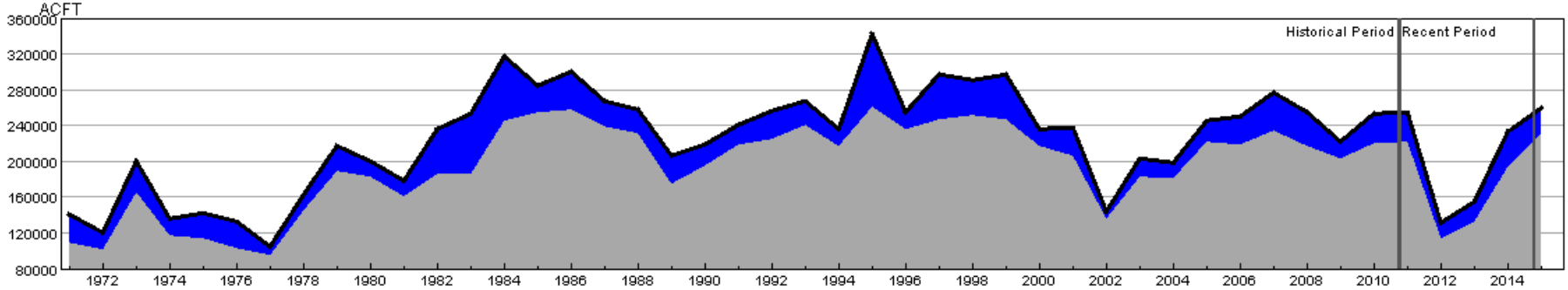
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:11020002-SEP-PrevMoStreamflow-SWSI
HUC:11020002-SEP-ForecastedRunoff-SWSI
HUC:11020002-SEP-ReservoirStorage-SWSI
HUC:11020002-SEP-DataComposite-SWSI

HUC 11020001 (Arkansas Headwaters) Surface Water Supply - SEP

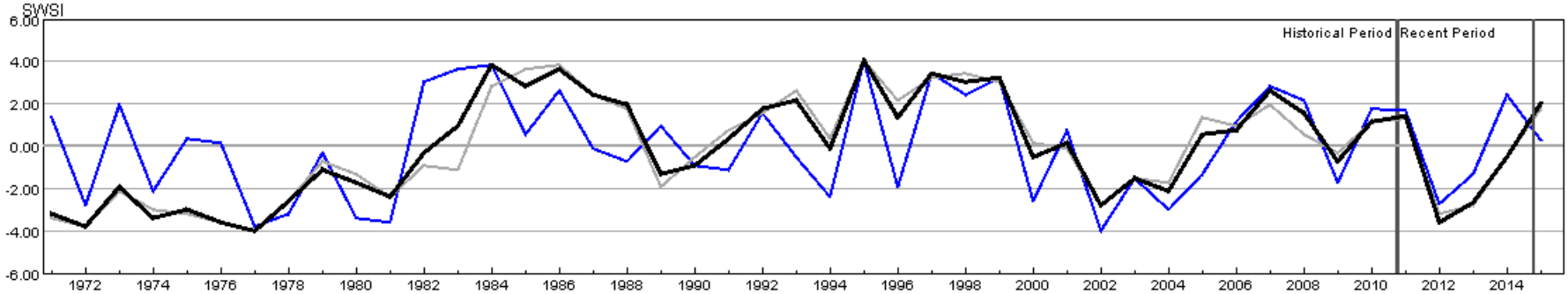
Monthly component volumes



HUC:11020001-SEP-DataComposite
HUC:11020001-SEP-PrevMoStreamflow
HUC:11020001-SEP-ForecastedRunoff
HUC:11020001-SEP-ReservoirStorage

HUC 11020001 (Arkansas Headwaters) SWSI Values - SEP

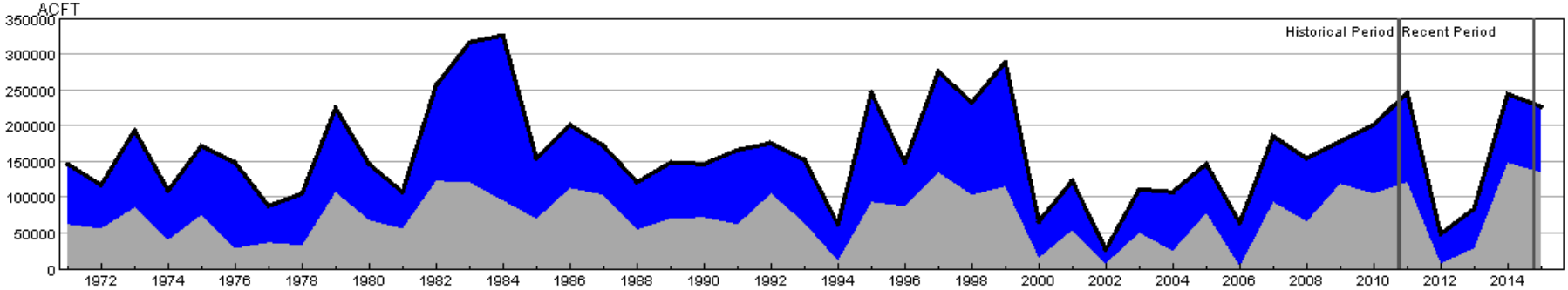
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:11020001-SEP-PrevMoStreamflow-SWSI
HUC:11020001-SEP-ForecastedRunoff-SWSI
HUC:11020001-SEP-ReservoirStorage-SWSI
HUC:11020001-SEP-DataComposite-SWSI

HUC 10190012 (Middle South Platte-Sterling) Surface Water Supply - SEP

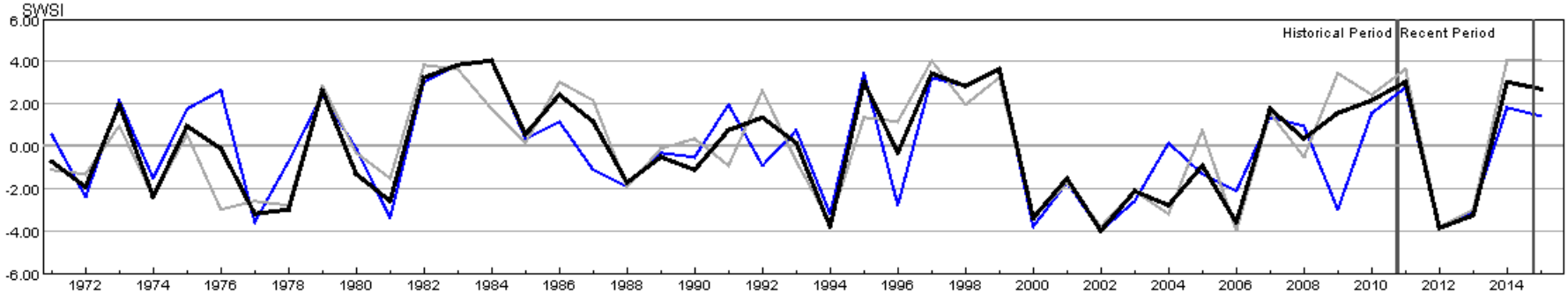
Monthly component volumes



HUC:10190012-SEP-DataComposite
HUC:10190012-SEP-PrevMoStreamflow
HUC:10190012-SEP-ForecastedRunoff
HUC:10190012-SEP-ReservoirStorage

HUC 10190012 (Middle South Platte-Sterling) SWSI Values - SEP

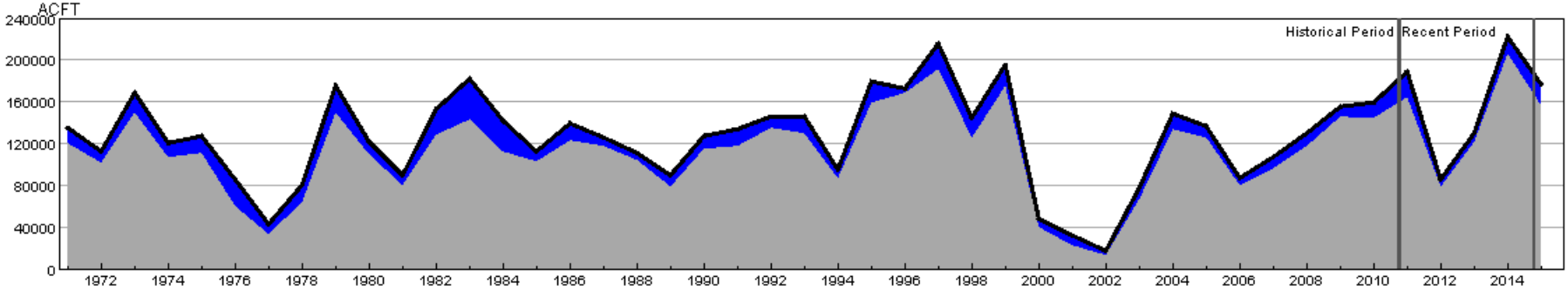
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190012-SEP-PrevMoStreamflow-SWSI
HUC:10190012-SEP-ForecastedRunoff-SWSI
HUC:10190012-SEP-ReservoirStorage-SWSI
HUC:10190012-SEP-DataComposite-SWSI

HUC 10190007 (Cache La Poudre) Surface Water Supply - SEP

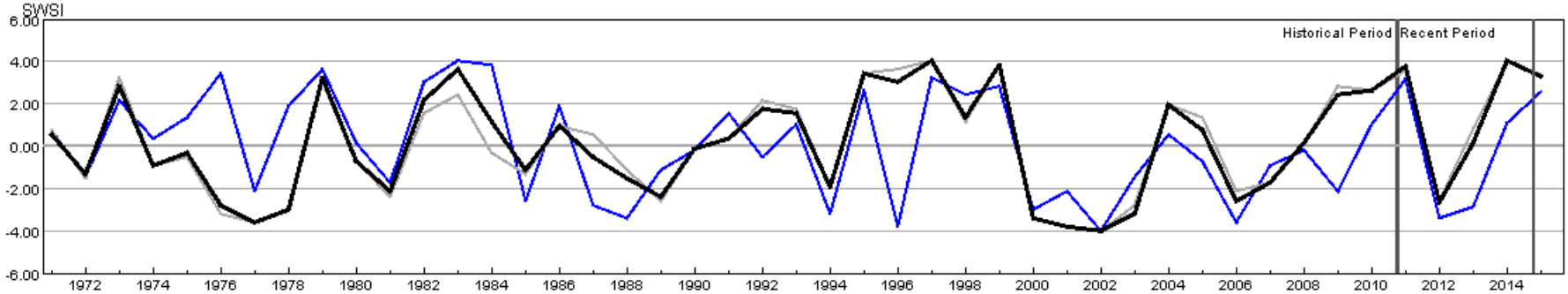
Monthly component volumes



HUC:10190007-SEP-DataComposite
HUC:10190007-SEP-PrevMoStreamflow
HUC:10190007-SEP-ForecastedRunoff
HUC:10190007-SEP-ReservoirStorage

HUC 10190007 (Cache La Poudre) SWSI Values - SEP

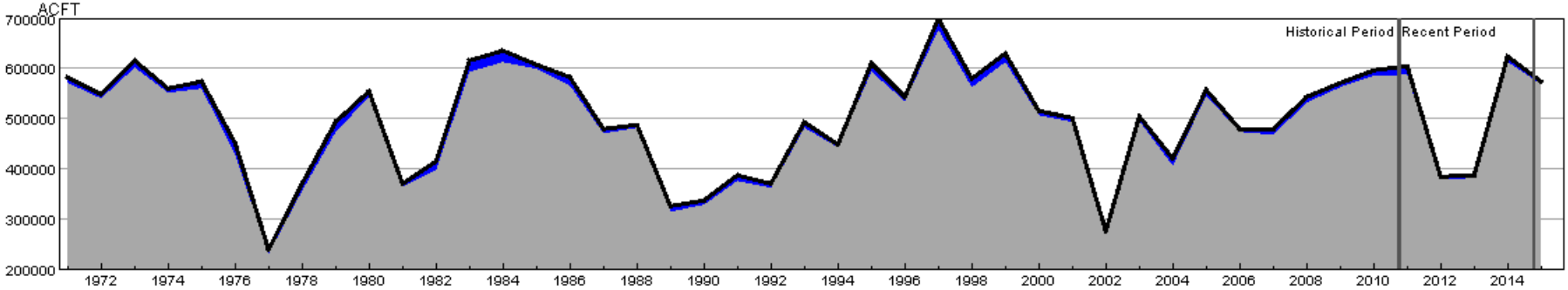
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190007-SEP-PrevMoStreamflow-SWSI
HUC:10190007-SEP-ForecastedRunoff-SWSI
HUC:10190007-SEP-ReservoirStorage-SWSI
HUC:10190007-SEP-DataComposite-SWSI

HUC 10190006 (Big Thompson) Surface Water Supply - SEP

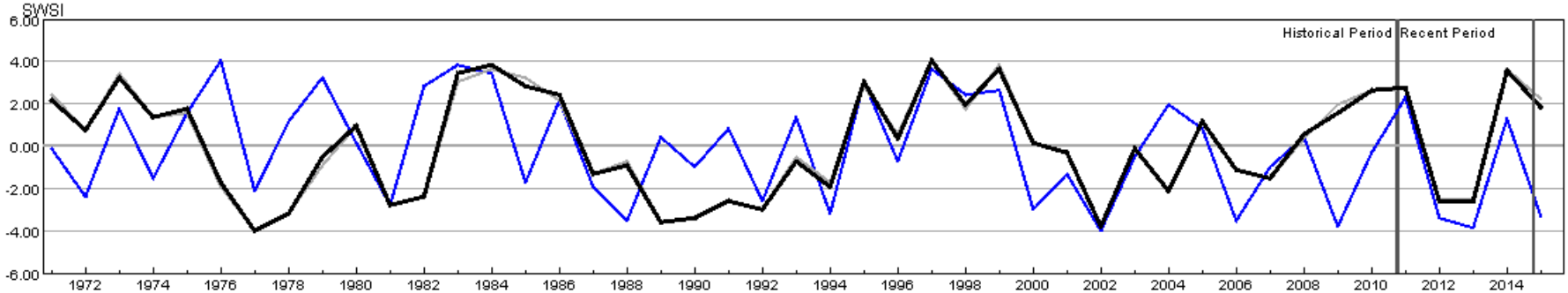
Monthly component volumes



HUC:10190006-SEP-DataComposite
HUC:10190006-SEP-PrevMoStreamflow
HUC:10190006-SEP-ForecastedRunoff
HUC:10190006-SEP-ReservoirStorage

HUC 10190006 (Big Thompson) SWSI Values - SEP

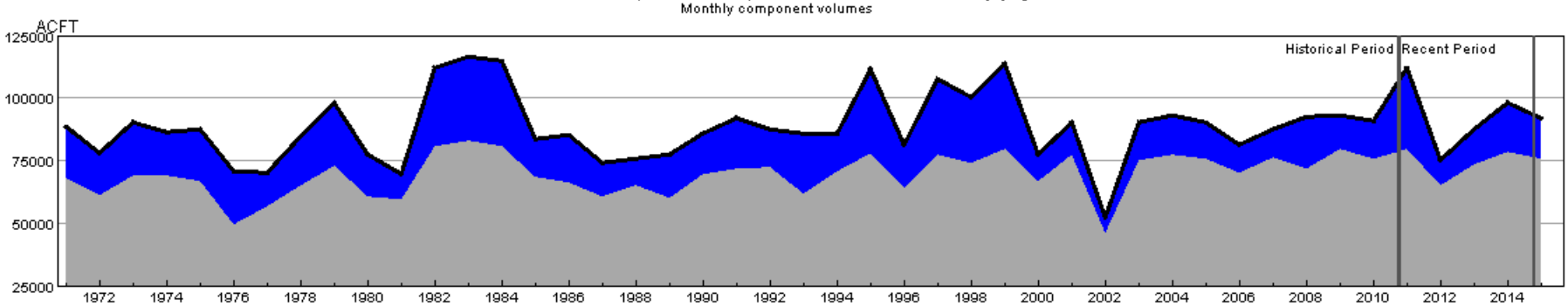
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190006-SEP-PrevMoStreamflow-SWSI
HUC:10190006-SEP-ForecastedRunoff-SWSI
HUC:10190006-SEP-ReservoirStorage-SWSI
HUC:10190006-SEP-DataComposite-SWSI

HUC 10190005 (St. Vrain) Surface Water Supply - SEP

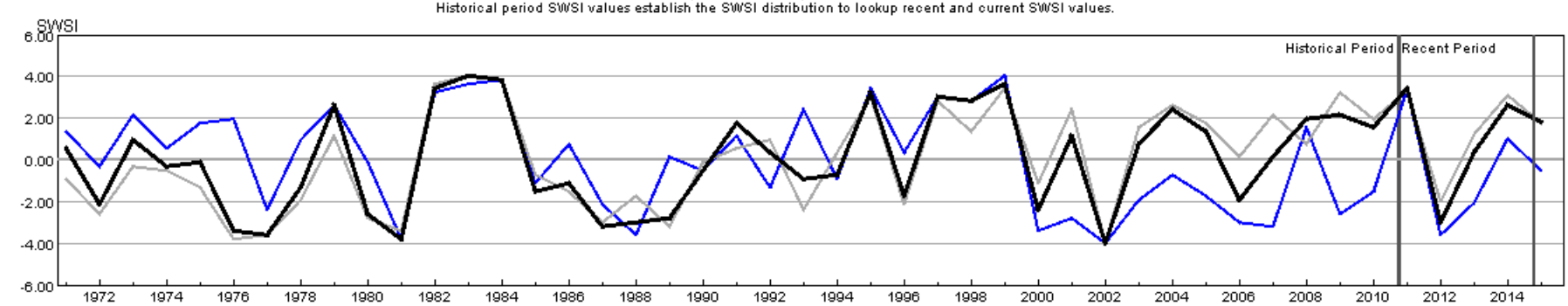
Monthly component volumes



HUC:10190005-SEP-DataComposite
HUC:10190005-SEP-PrevMoStreamflow
HUC:10190005-SEP-ForecastedRunoff
HUC:10190005-SEP-ReservoirStorage

HUC 10190005 (St. Vrain) SWSI Values - SEP

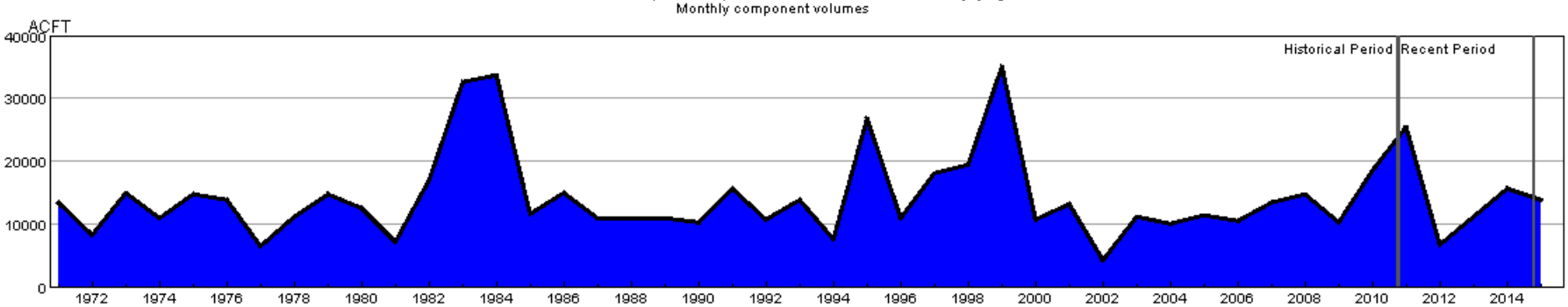
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190005-SEP-PrevMoStreamflow-SWSI
HUC:10190005-SEP-ForecastedRunoff-SWSI
HUC:10190005-SEP-ReservoirStorage-SWSI
HUC:10190005-SEP-DataComposite-SWSI

HUC 10190004 (Clear) Surface Water Supply - SEP

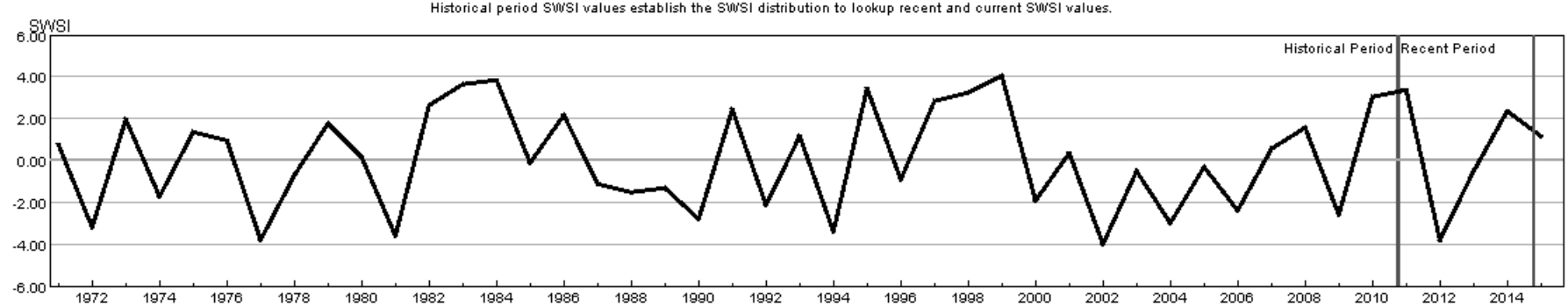
Monthly component volumes



HUC:10190004-SEP-DataComposite
HUC:10190004-SEP-PrevMoStreamflow
HUC:10190004-SEP-ForecastedRunoff
HUC:10190004-SEP-ReservoirStorage

HUC 10190004 (Clear) SWSI Values - SEP

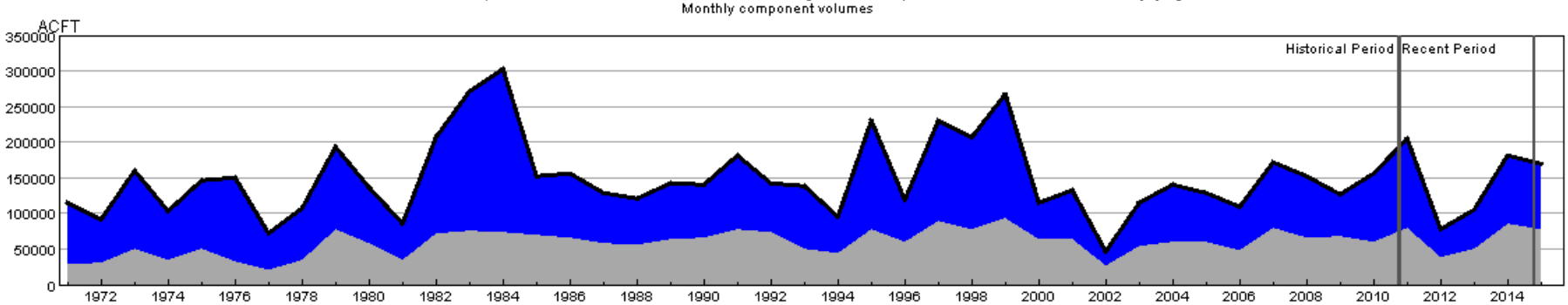
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190004-SEP-PrevMoStreamflow-SWSI
HUC:10190004-SEP-ForecastedRunoff-SWSI
HUC:10190004-SEP-ReservoirStorage-SWSI
HUC:10190004-SEP-DataComposite-SWSI

HUC 10190003 (Middle South Platte-Cherry Creek) Surface Water Supply - SEP

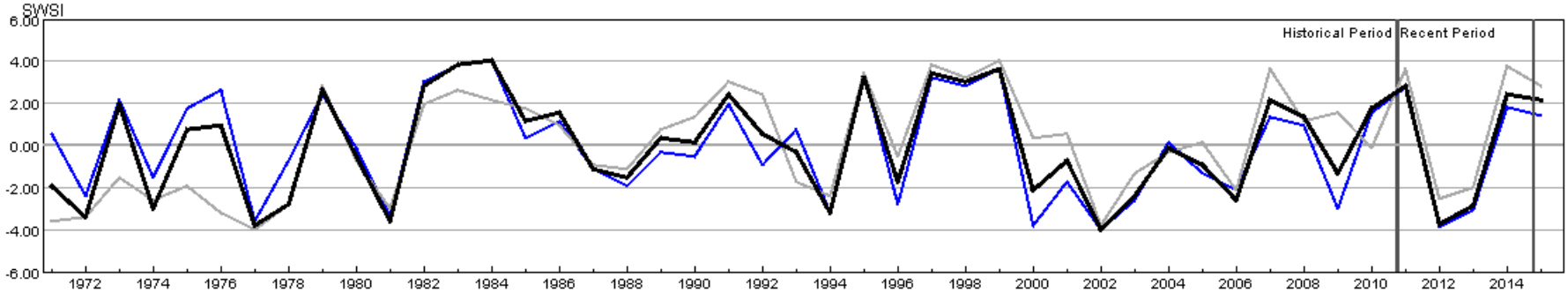
Monthly component volumes



HUC:10190003-SEP-DataComposite
HUC:10190003-SEP-PrevMoStreamflow
HUC:10190003-SEP-ForecastedRunoff
HUC:10190003-SEP-ReservoirStorage

HUC 10190003 (Middle South Platte-Cherry Creek) SWSI Values - SEP

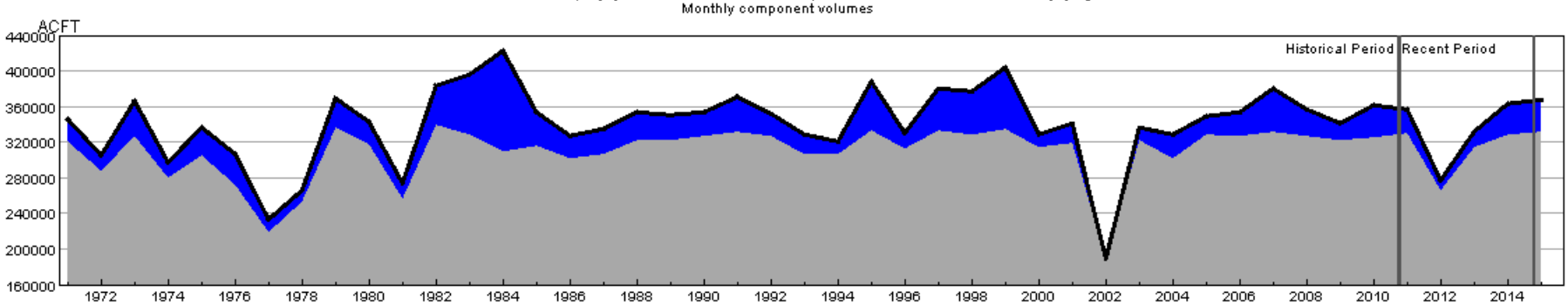
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190003-SEP-PrevMoStreamflow-SWSI
HUC:10190003-SEP-ForecastedRunoff-SWSI
HUC:10190003-SEP-ReservoirStorage-SWSI
HUC:10190003-SEP-DataComposite-SWSI

HUC 10190002 (Upper South Platte) Surface Water Supply - SEP

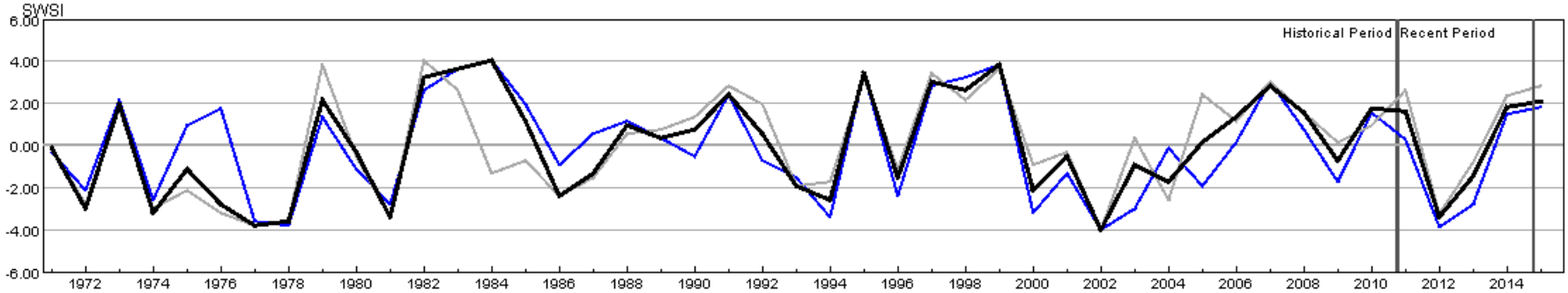
Monthly component volumes



HUC:10190002-SEP-DataComposite
HUC:10190002-SEP-PrevMoStreamflow
HUC:10190002-SEP-ForecastedRunoff
HUC:10190002-SEP-ReservoirStorage

HUC 10190002 (Upper South Platte) SWSI Values - SEP

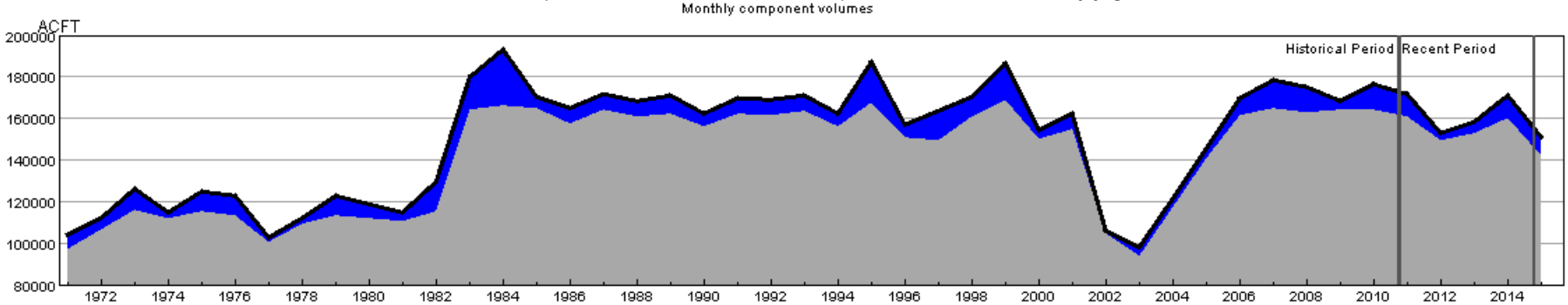
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190002-SEP-PrevMoStreamflow-SWSI
HUC:10190002-SEP-ForecastedRunoff-SWSI
HUC:10190002-SEP-ReservoirStorage-SWSI
HUC:10190002-SEP-DataComposite-SWSI

HUC 10190001 (South Platte Headwater) Surface Water Supply - SEP

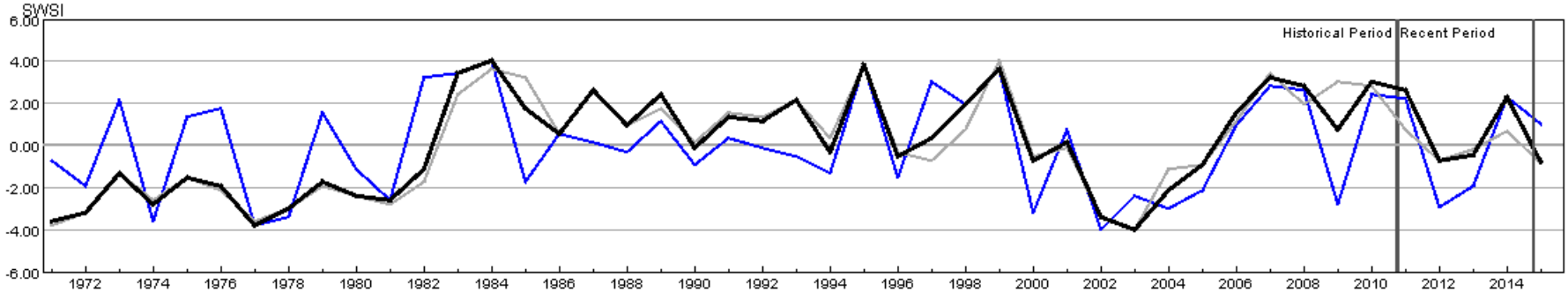
Monthly component volumes



HUC:10190001-SEP-DataComposite
HUC:10190001-SEP-PrevMoStreamflow
HUC:10190001-SEP-ForecastedRunoff
HUC:10190001-SEP-ReservoirStorage

HUC 10190001 (South Platte Headwater) SWSI Values - SEP

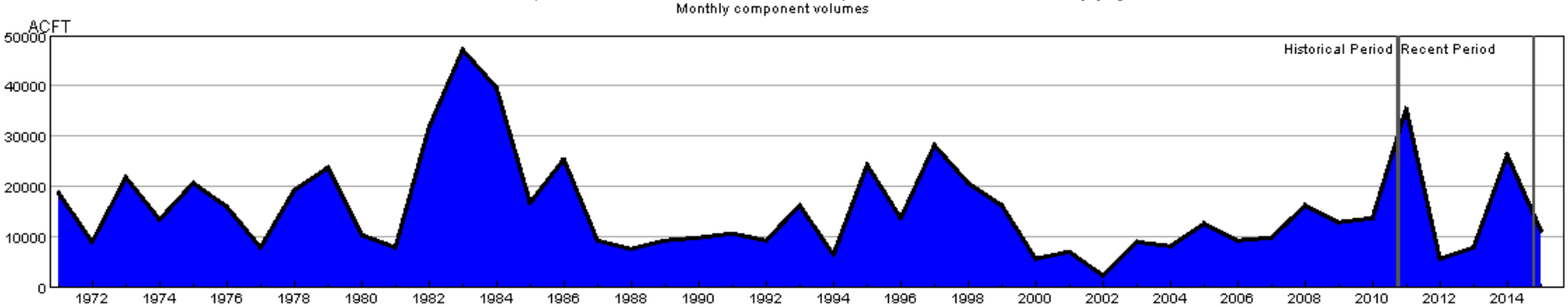
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190001-SEP-PrevMoStreamflow-SWSI
HUC:10190001-SEP-ForecastedRunoff-SWSI
HUC:10190001-SEP-ReservoirStorage-SWSI
HUC:10190001-SEP-DataComposite-SWSI

HUC 10180001 (North Platte Headwaters) Surface Water Supply - SEP

Monthly component volumes



HUC:10180001-SEP-DataComposite
HUC:10180001-SEP-PrevMoStreamflow
HUC:10180001-SEP-ForecastedRunoff
HUC:10180001-SEP-ReservoirStorage

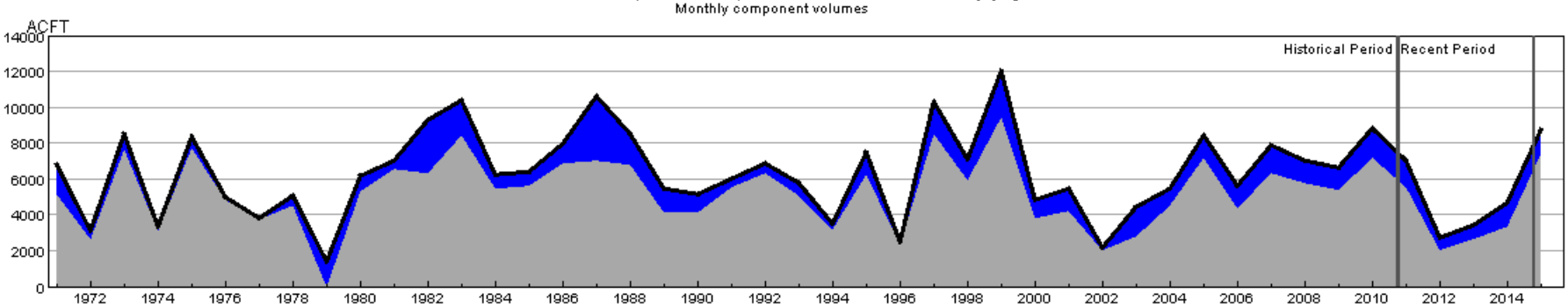
HUC 10180001 (North Platte Headwaters) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.

HUC:10180001-SEP-PrevMoStreamflow-SWSI
HUC:10180001-SEP-ForecastedRunoff-SWSI
HUC:10180001-SEP-ReservoirStorage-SWSI
HUC:10180001-SEP-DataComposite-SWSI

HUC 14080107 (Mancos) Surface Water Supply - SEP

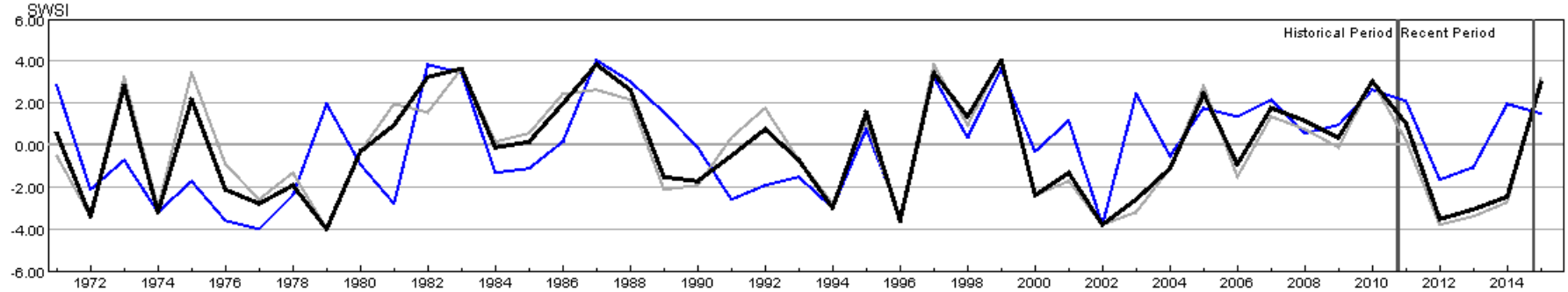
Monthly component volumes



HUC:14080107-SEP-DataComposite
HUC:14080107-SEP-PrevMoStreamflow [**Results are computed using observed flow data for the previous month's streamflow component for 1 station(s).]
HUC:14080107-SEP-ForecastedRunoff
HUC:14080107-SEP-ReservoirStorage

HUC 14080107 (Mancos) SWSI Values - SEP

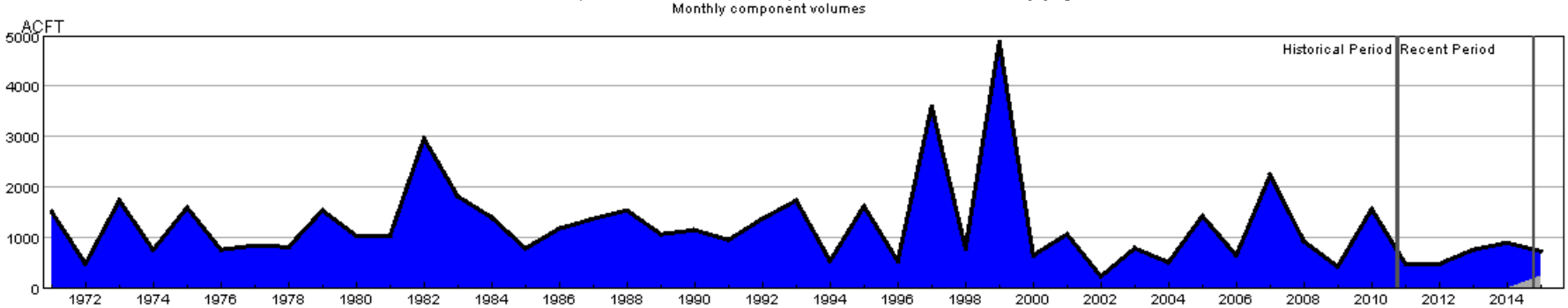
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14080107-SEP-PrevMoStreamflow-SWSI
HUC:14080107-SEP-ForecastedRunoff-SWSI
HUC:14080107-SEP-ReservoirStorage-SWSI
HUC:14080107-SEP-DataComposite-SWSI

HUC 14080105 (Middle San Juan) Surface Water Supply - SEP

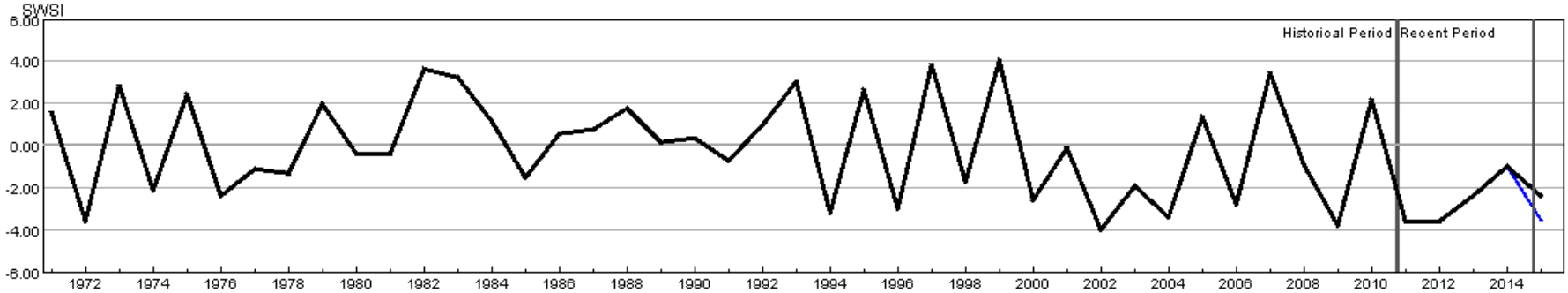
Monthly component volumes



HUC:14080105-SEP-DataComposite
HUC:14080105-SEP-PrevMoStreamflow
HUC:14080105-SEP-ForecastedRunoff
HUC:14080105-SEP-ReservoirStorage

HUC 14080105 (Middle San Juan) SWSI Values - SEP

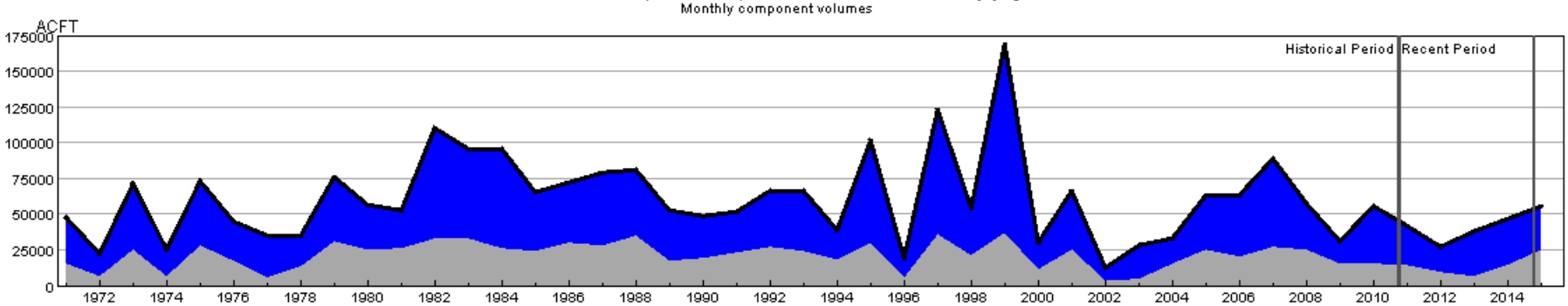
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14080105-SEP-PrevMoStreamflow-SWSI
HUC:14080105-SEP-ForecastedRunoff-SWSI
HUC:14080105-SEP-ReservoirStorage-SWSI
HUC:14080105-SEP-DataComposite-SWSI

HUC 14080104 (Animas) Surface Water Supply - SEP

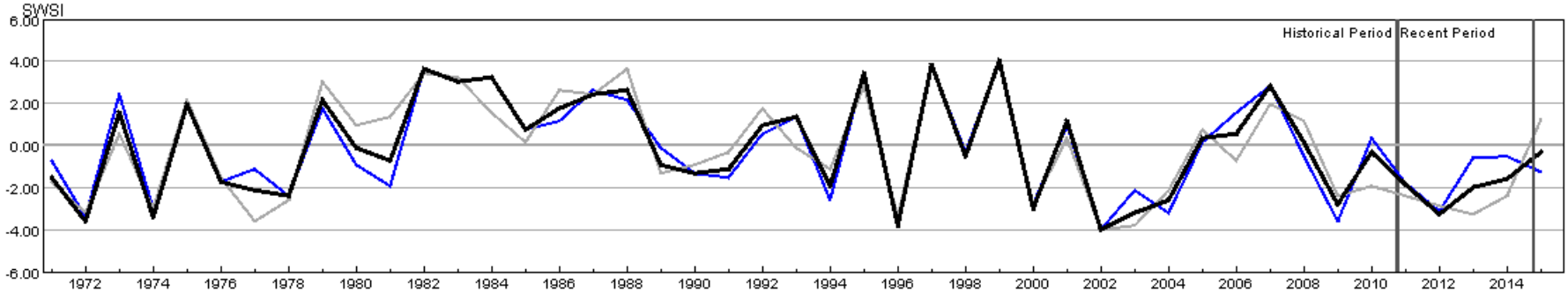
Monthly component volumes



HUC:14080104-SEP-DataComposite
HUC:14080104-SEP-PrevMoStreamflow
HUC:14080104-SEP-ForecastedRunoff
HUC:14080104-SEP-ReservoirStorage

HUC 14080104 (Animas) SWSI Values - SEP

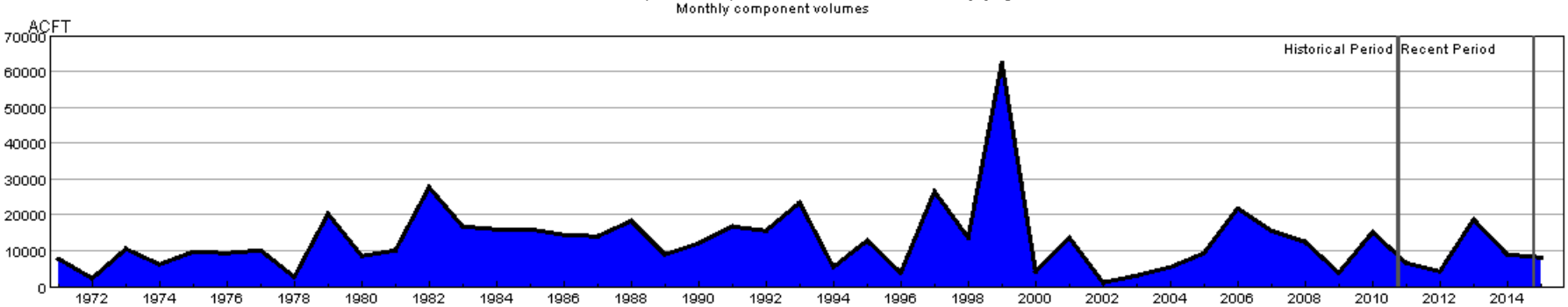
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14080104-SEP-PrevMoStreamflow-SWSI
HUC:14080104-SEP-ForecastedRunoff-SWSI
HUC:14080104-SEP-ReservoirStorage-SWSI
HUC:14080104-SEP-DataComposite-SWSI

HUC 14080102 (Piedra) Surface Water Supply - SEP

Monthly component volumes



HUC:14080102-SEP-DataComposite
HUC:14080102-SEP-PrevMoStreamflow
HUC:14080102-SEP-ForecastedRunoff
HUC:14080102-SEP-ReservoirStorage

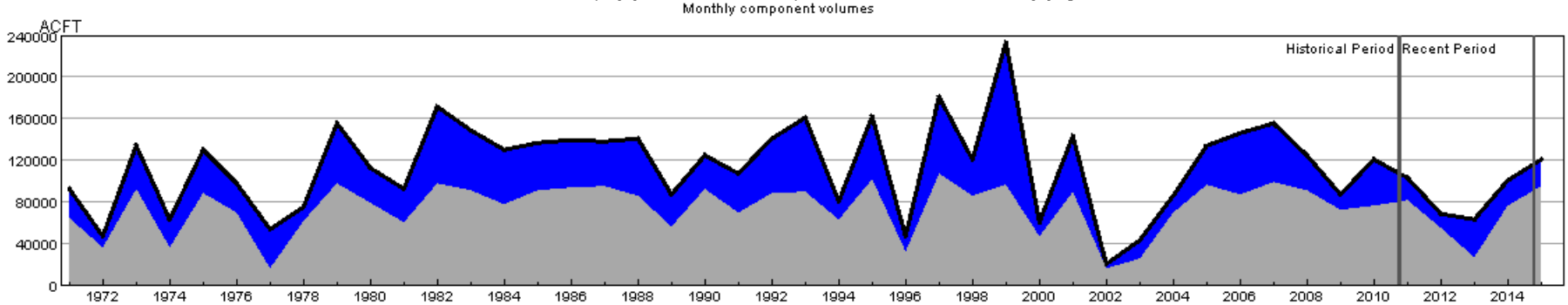
HUC 14080102 (Piedra) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.

HUC:14080102-SEP-PrevMoStreamflow-SWSI
HUC:14080102-SEP-ForecastedRunoff-SWSI
HUC:14080102-SEP-ReservoirStorage-SWSI
HUC:14080102-SEP-DataComposite-SWSI

HUC 14080101 (Upper San Juan) Surface Water Supply - SEP

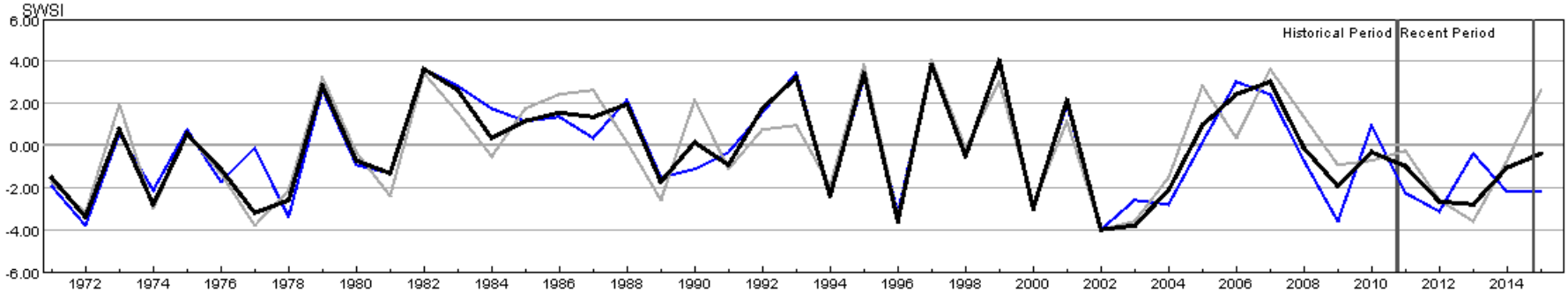
Monthly component volumes



HUC:14080101-SEP-DataComposite
HUC:14080101-SEP-PrevMoStreamflow
HUC:14080101-SEP-ForecastedRunoff
HUC:14080101-SEP-ReservoirStorage

HUC 14080101 (Upper San Juan) SWSI Values - SEP

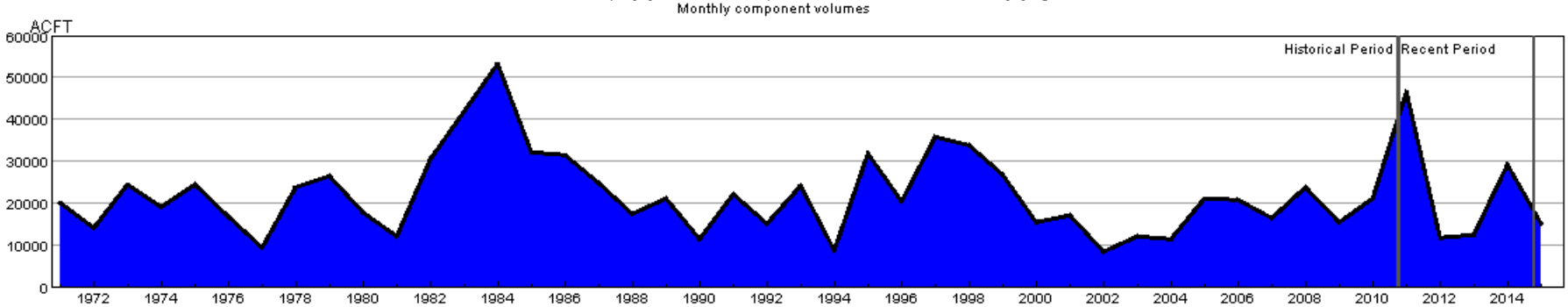
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14080101-SEP-PrevMoStreamflow-SWSI
HUC:14080101-SEP-ForecastedRunoff-SWSI
HUC:14080101-SEP-ReservoirStorage-SWSI
HUC:14080101-SEP-DataComposite-SWSI

HUC 14050005 (Upper White) Surface Water Supply - SEP

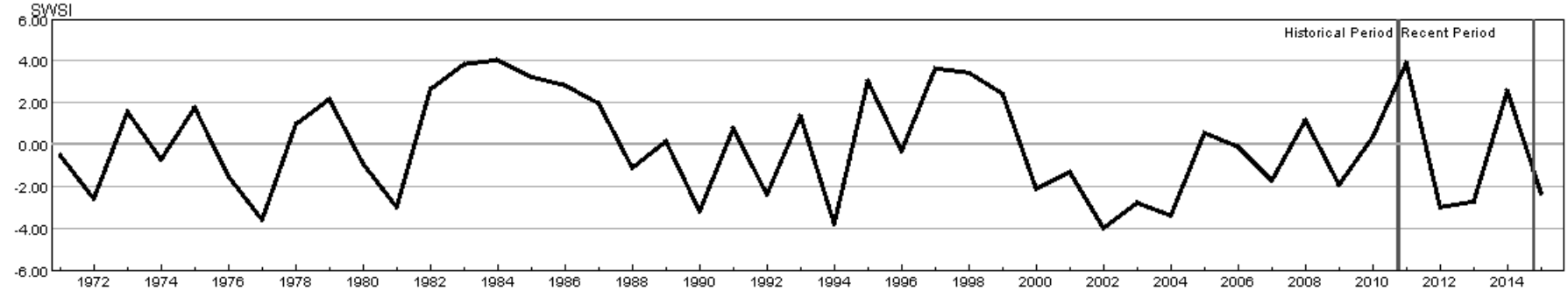
Monthly component volumes



HUC:14050005-SEP-DataComposite
HUC:14050005-SEP-PrevMoStreamflow
HUC:14050005-SEP-ForecastedRunoff
HUC:14050005-SEP-ReservoirStorage

HUC 14050005 (Upper White) SWSI Values - SEP

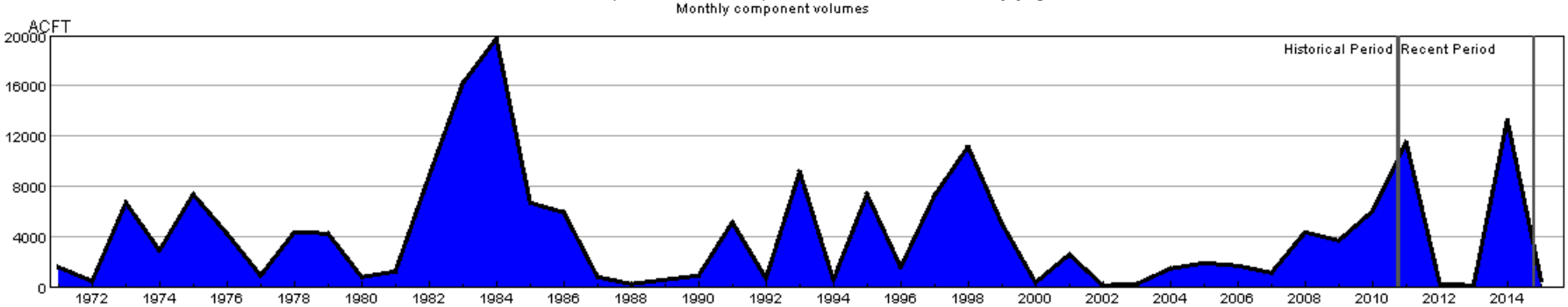
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14050005-SEP-PrevMoStreamflow-SWSI
HUC:14050005-SEP-ForecastedRunoff-SWSI
HUC:14050005-SEP-ReservoirStorage-SWSI
HUC:14050005-SEP-DataComposite-SWSI

HUC 14050003 (Little Snake) Surface Water Supply - SEP

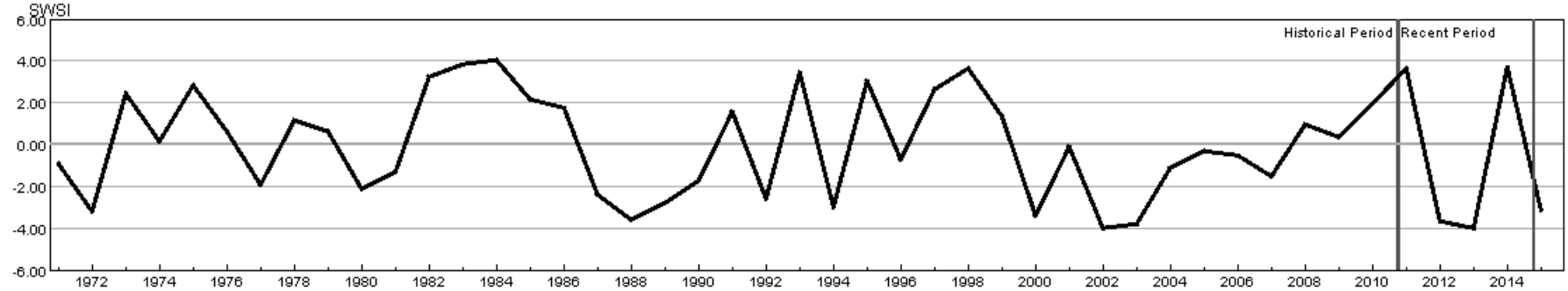
Monthly component volumes



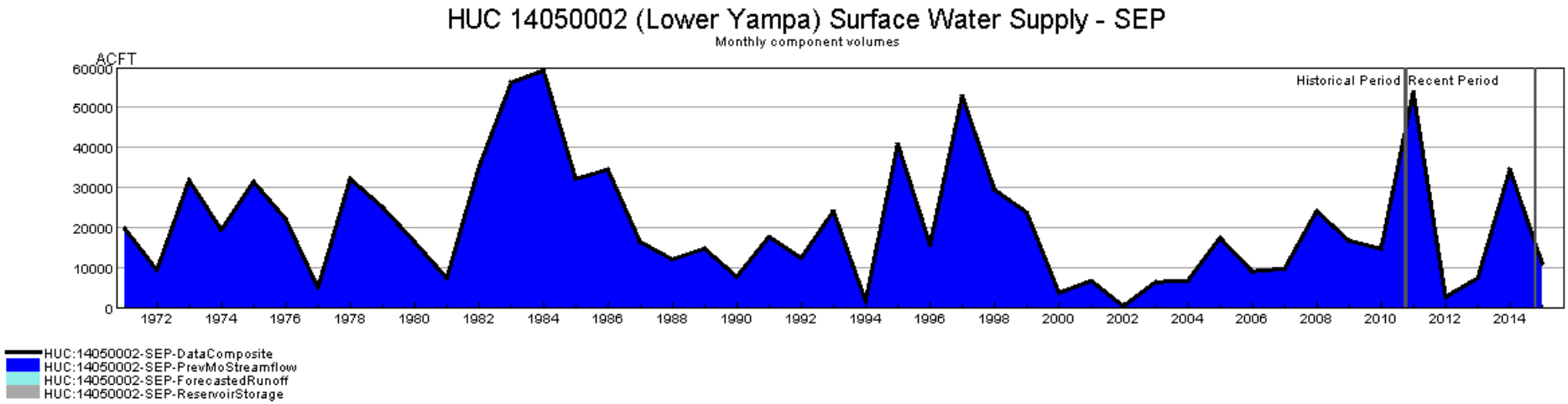
HUC:14050003-SEP-DataComposite
HUC:14050003-SEP-PrevMoStreamflow
HUC:14050003-SEP-ForecastedRunoff
HUC:14050003-SEP-ReservoirStorage

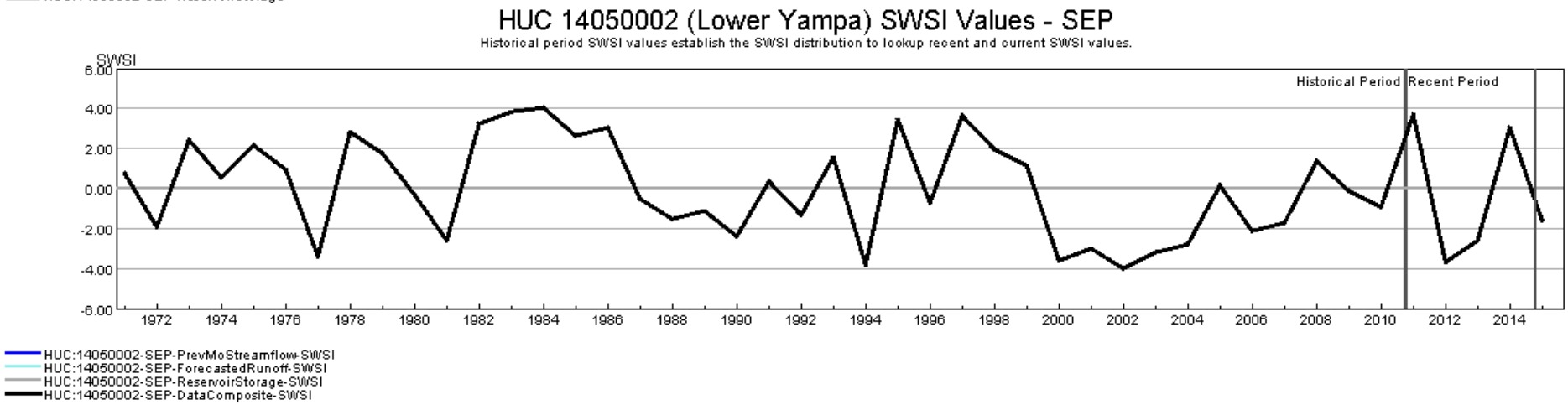
HUC 14050003 (Little Snake) SWSI Values - SEP

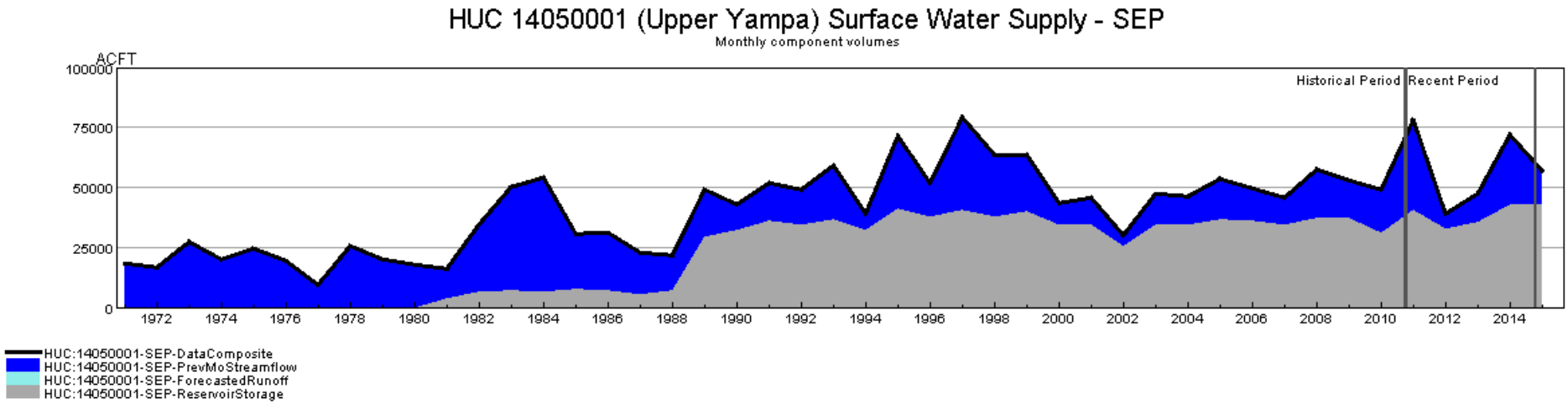
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.

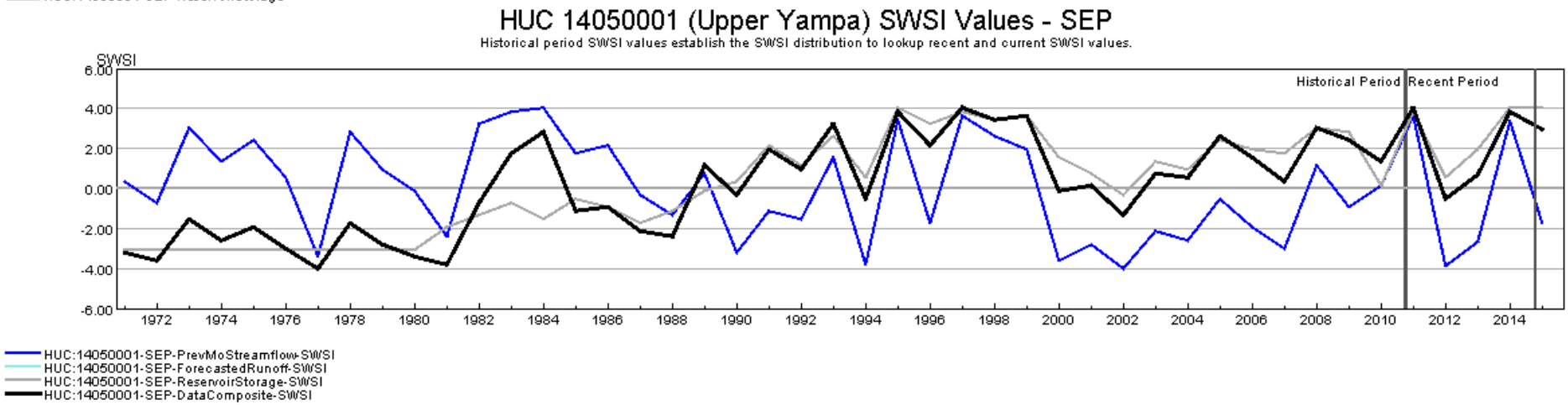


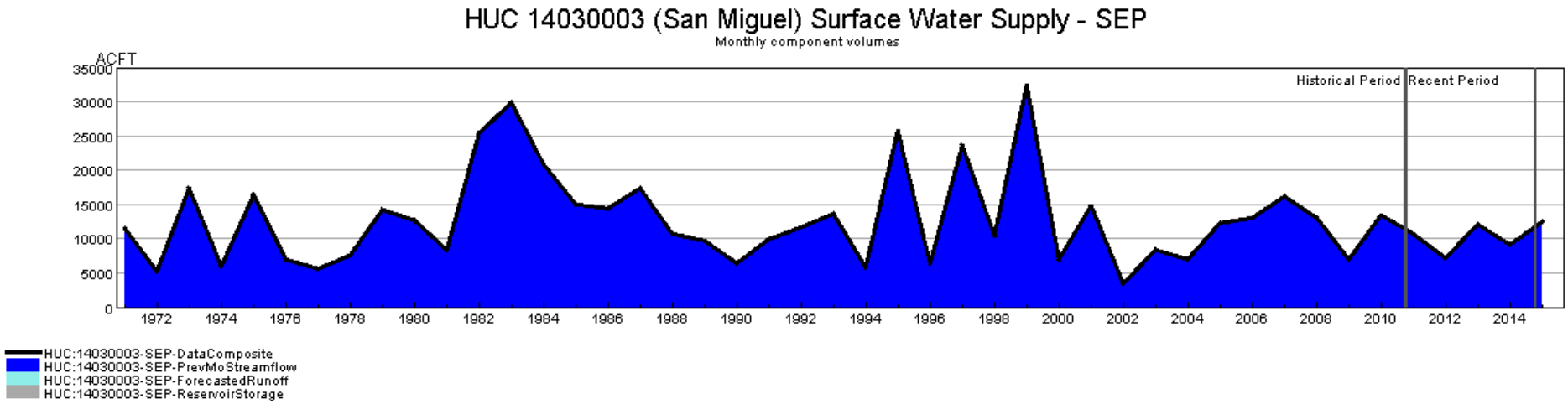
HUC:14050003-SEP-PrevMoStreamflow-SWSI
HUC:14050003-SEP-ForecastedRunoff-SWSI
HUC:14050003-SEP-ReservoirStorage-SWSI
HUC:14050003-SEP-DataComposite-SWSI

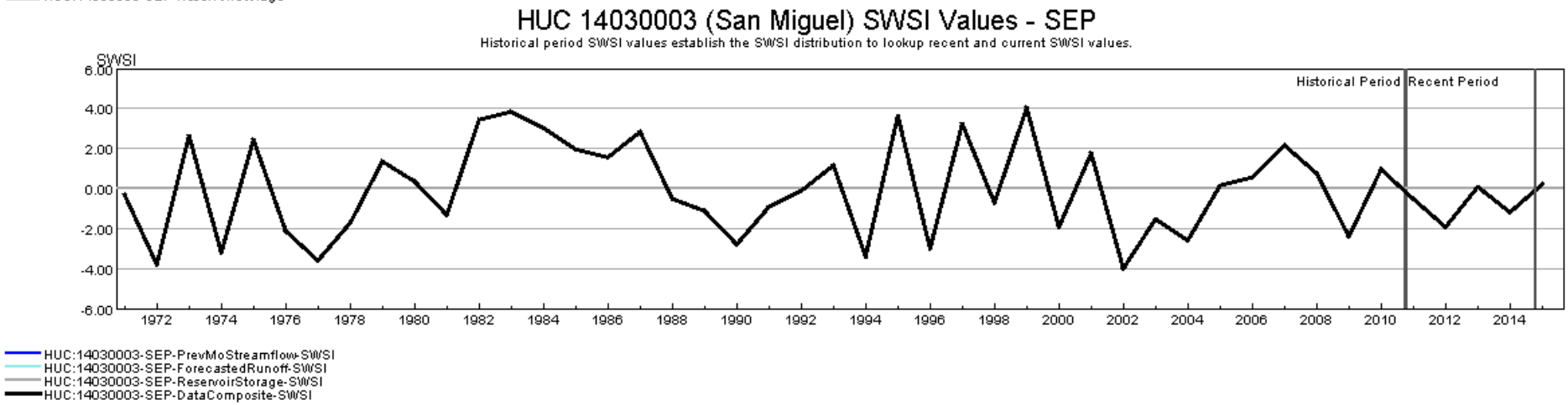

HUC 14050002 (Lower Yampa) Surface Water Supply - SEP
Monthly component volumes
ACFT
60000
50000
40000
30000
20000
10000
0
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:14050002-SEP-DataComposite
HUC:14050002-SEP-PrevMoStreamflow
HUC:14050002-SEP-ForecastedRunoff
HUC:14050002-SEP-ReservoirStorage


HUC 14050002 (Lower Yampa) SWSI Values - SEP
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:14050002-SEP-PrevMoStreamflow-SWSI
HUC:14050002-SEP-ForecastedRunoff-SWSI
HUC:14050002-SEP-ReservoirStorage-SWSI
HUC:14050002-SEP-DataComposite-SWSI


HUC 14050001 (Upper Yampa) Surface Water Supply - SEP
Monthly component volumes
ACFT
100000
75000
50000
25000
0
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:14050001-SEP-DataComposite
HUC:14050001-SEP-PrevMoStreamflow
HUC:14050001-SEP-ForecastedRunoff
HUC:14050001-SEP-ReservoirStorage

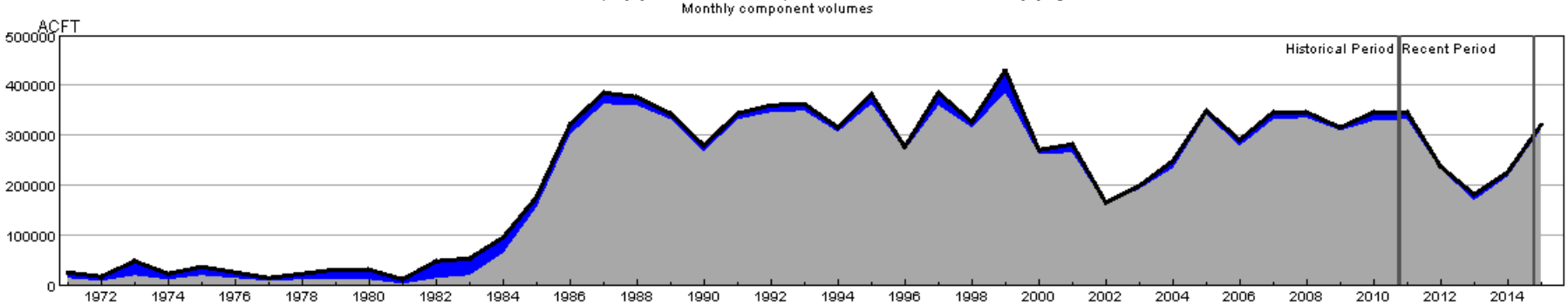

HUC 14050001 (Upper Yampa) SWSI Values - SEP
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:14050001-SEP-PrevMoStreamflow-SWSI
HUC:14050001-SEP-ForecastedRunoff-SWSI
HUC:14050001-SEP-ReservoirStorage-SWSI
HUC:14050001-SEP-DataComposite-SWSI


HUC 14030003 (San Miguel) Surface Water Supply - SEP
Monthly component volumes
ACFT
35000
30000
25000
20000
15000
10000
5000
0
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:14030003-SEP-DataComposite
HUC:14030003-SEP-PrevMoStreamflow
HUC:14030003-SEP-ForecastedRunoff
HUC:14030003-SEP-ReservoirStorage


HUC 14030003 (San Miguel) SWSI Values - SEP
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
Historical Period
Recent Period
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
HUC:14030003-SEP-PrevMoStreamflow-SWSI
HUC:14030003-SEP-ForecastedRunoff-SWSI
HUC:14030003-SEP-ReservoirStorage-SWSI
HUC:14030003-SEP-DataComposite-SWSI

HUC 14030002 (Upper Dolores) Surface Water Supply - SEP

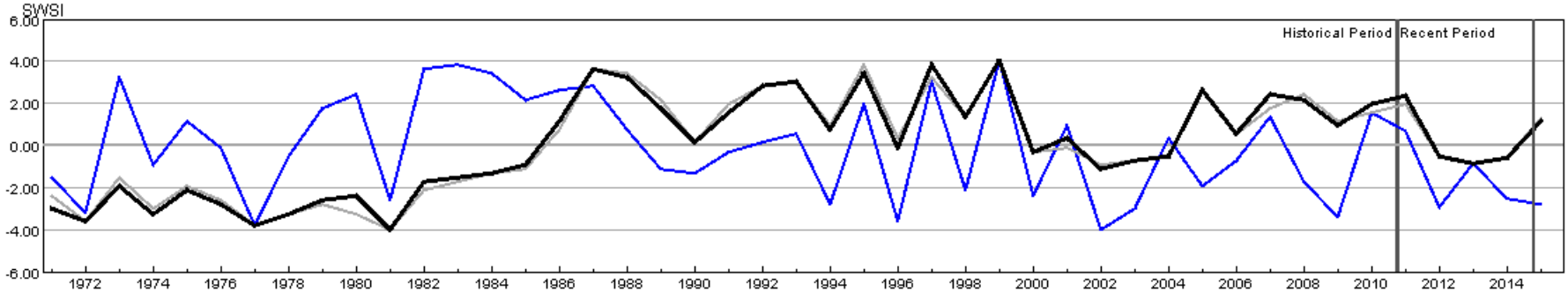
Monthly component volumes



HUC:14030002-SEP-DataComposite
HUC:14030002-SEP-PrevMoStreamflow
HUC:14030002-SEP-ForecastedRunoff
HUC:14030002-SEP-ReservoirStorage

HUC 14030002 (Upper Dolores) SWSI Values - SEP

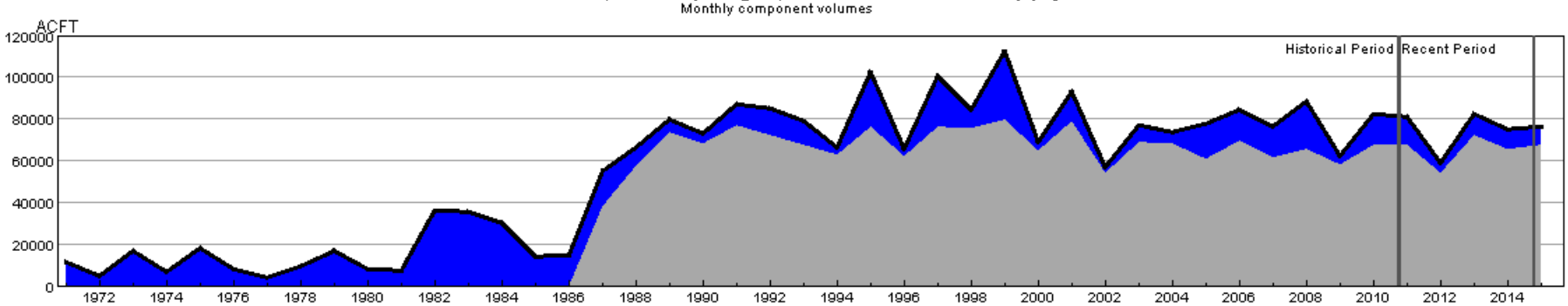
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14030002-SEP-PrevMoStreamflow-SWSI
HUC:14030002-SEP-ForecastedRunoff-SWSI
HUC:14030002-SEP-ReservoirStorage-SWSI
HUC:14030002-SEP-DataComposite-SWSI

HUC 14020006 (Uncompahgre) Surface Water Supply - SEP

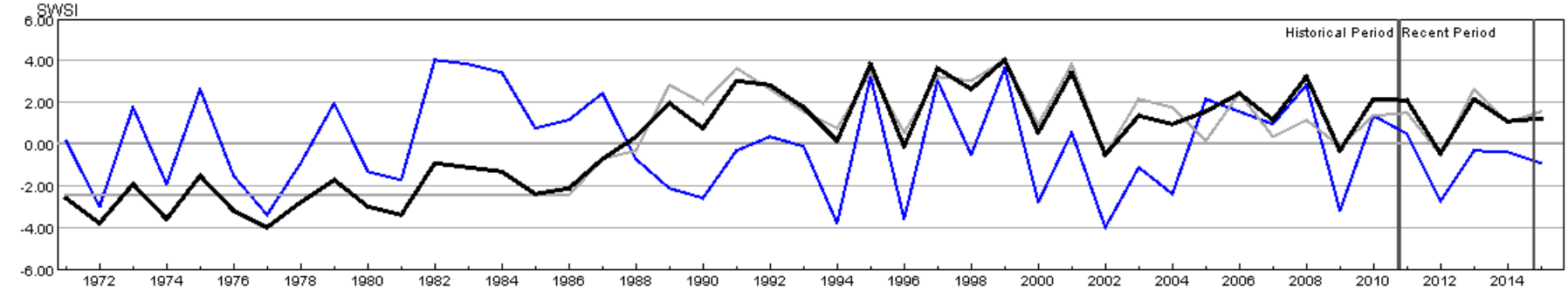
Monthly component volumes



HUC:14020006-SEP-DataComposite
HUC:14020006-SEP-PrevMoStreamflow
HUC:14020006-SEP-ForecastedRunoff
HUC:14020006-SEP-ReservoirStorage

HUC 14020006 (Uncompahgre) SWSI Values - SEP

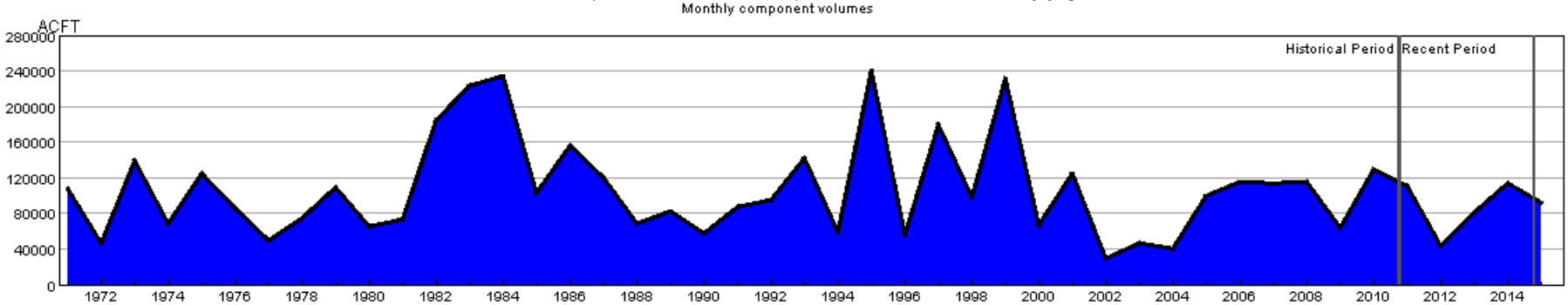
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14020006-SEP-PrevMoStreamflow-SWSI
HUC:14020006-SEP-ForecastedRunoff-SWSI
HUC:14020006-SEP-ReservoirStorage-SWSI
HUC:14020006-SEP-DataComposite-SWSI

HUC 14020005 (Lower Gunnison) Surface Water Supply - SEP

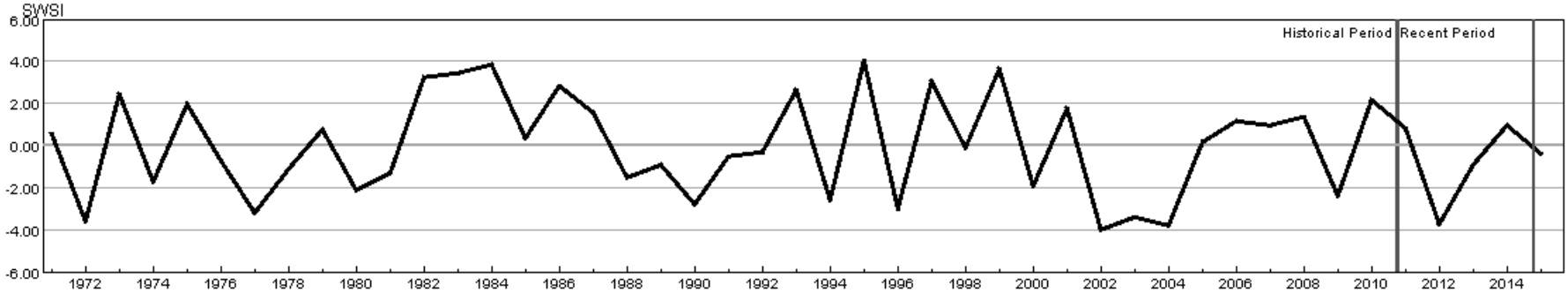
Monthly component volumes



HUC:14020005-SEP-DataComposite
HUC:14020005-SEP-PrevMoStreamflow
HUC:14020005-SEP-ForecastedRunoff
HUC:14020005-SEP-ReservoirStorage

HUC 14020005 (Lower Gunnison) SWSI Values - SEP

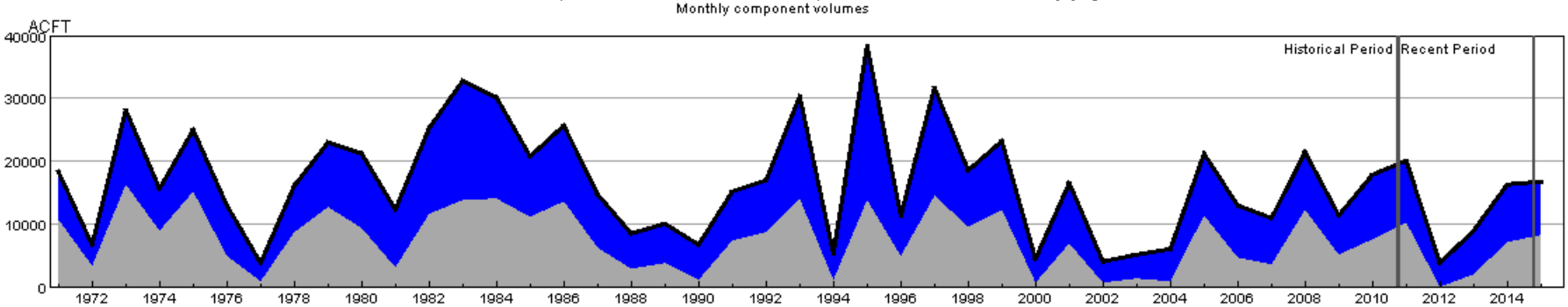
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14020005-SEP-PrevMoStreamflow-SWSI
HUC:14020005-SEP-ForecastedRunoff-SWSI
HUC:14020005-SEP-ReservoirStorage-SWSI
HUC:14020005-SEP-DataComposite-SWSI

HUC 14020004 (North Fork Gunnison) Surface Water Supply - SEP

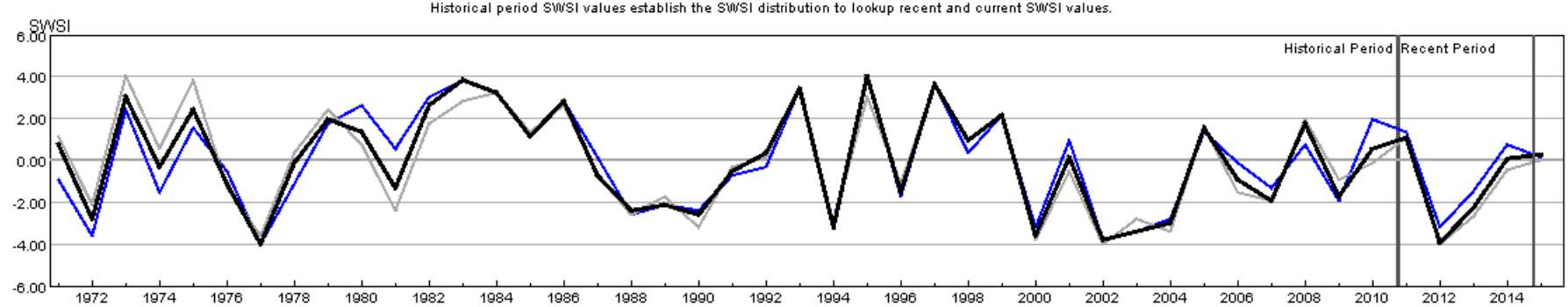
Monthly component volumes



HUC:14020004-SEP-DataComposite
HUC:14020004-SEP-PrevMoStreamflow
HUC:14020004-SEP-ForecastedRunoff
HUC:14020004-SEP-ReservoirStorage

HUC 14020004 (North Fork Gunnison) SWSI Values - SEP

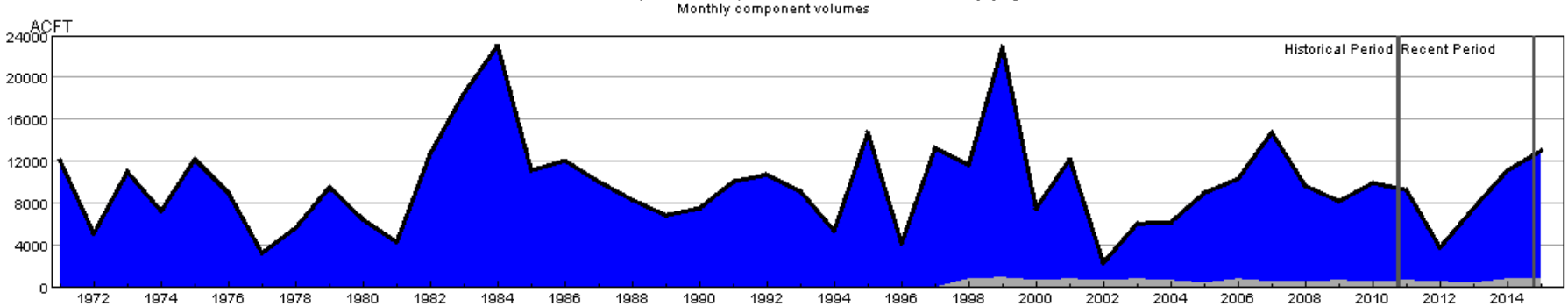
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14020004-SEP-PrevMoStreamflow-SWSI
HUC:14020004-SEP-ForecastedRunoff-SWSI
HUC:14020004-SEP-ReservoirStorage-SWSI
HUC:14020004-SEP-DataComposite-SWSI

HUC 14020003 (Tomichi) Surface Water Supply - SEP

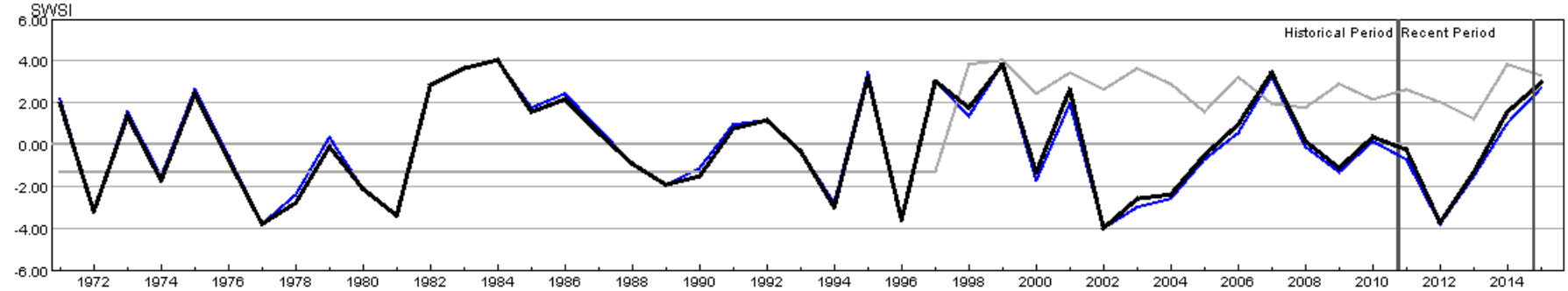
Monthly component volumes



HUC:14020003-SEP-DataComposite
HUC:14020003-SEP-PrevMoStreamflow
HUC:14020003-SEP-ForecastedRunoff
HUC:14020003-SEP-ReservoirStorage

HUC 14020003 (Tomichi) SWSI Values - SEP

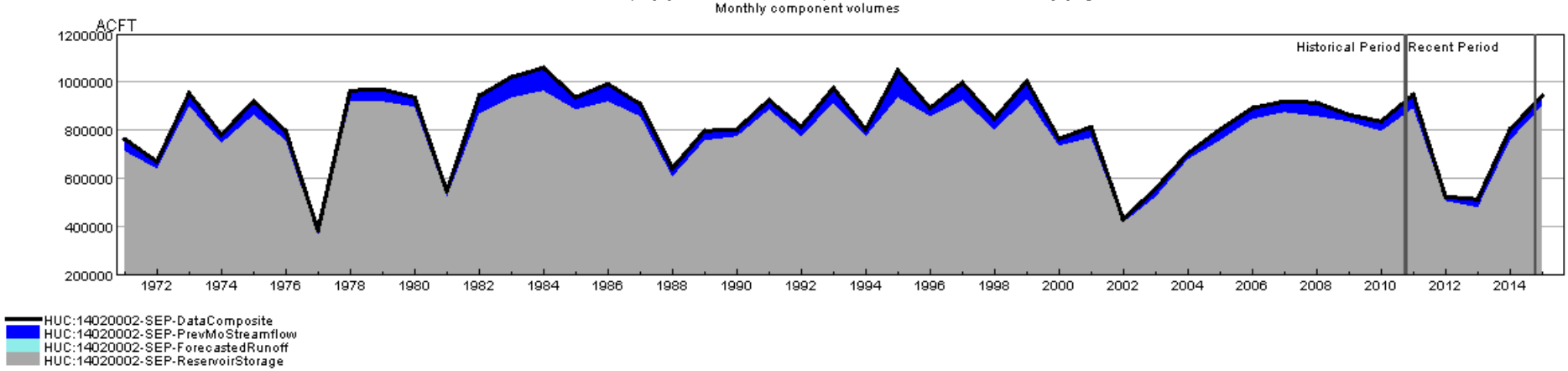
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14020003-SEP-PrevMoStreamflow-SWSI
HUC:14020003-SEP-ForecastedRunoff-SWSI
HUC:14020003-SEP-ReservoirStorage-SWSI
HUC:14020003-SEP-DataComposite-SWSI

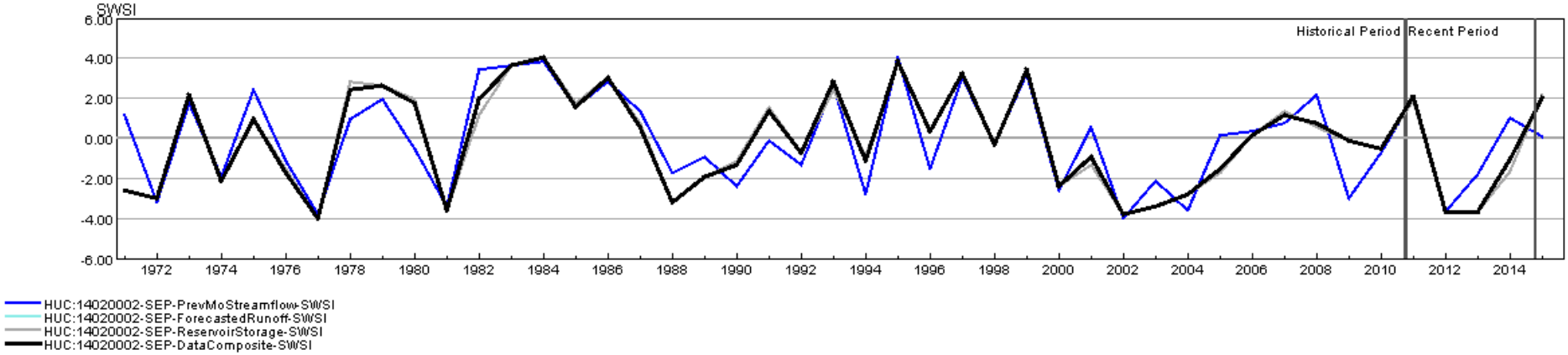
HUC 14020002 (Upper Gunnison) Surface Water Supply - SEP

Monthly component volumes



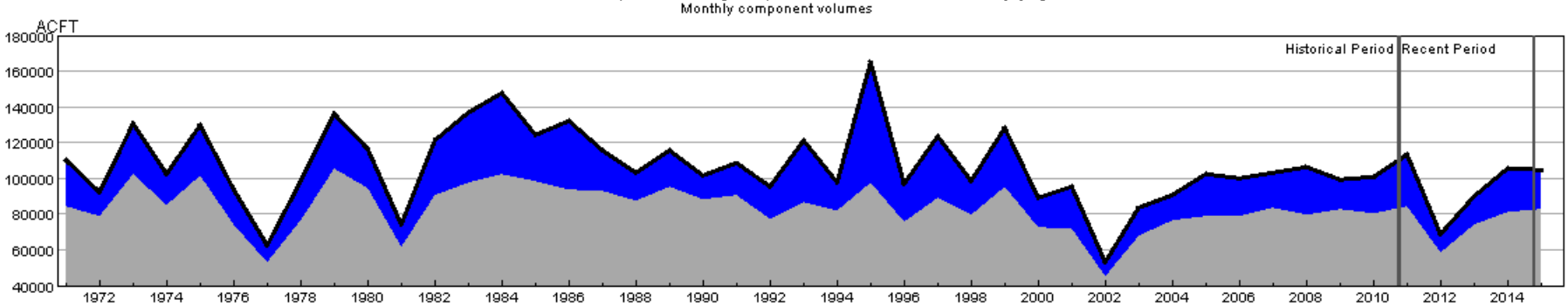
HUC 14020002 (Upper Gunnison) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14020001 (East-Taylor) Surface Water Supply - SEP

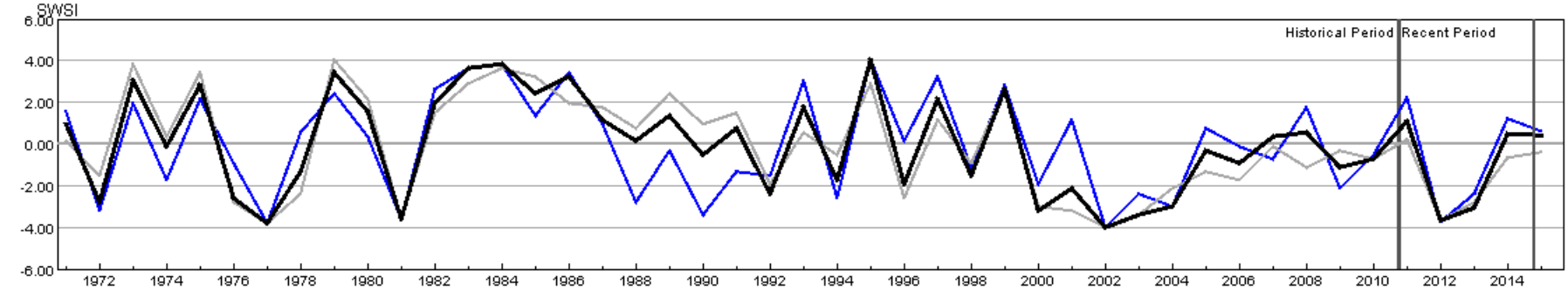
Monthly component volumes



HUC:14020001-SEP-DataComposite
HUC:14020001-SEP-PrevMoStreamflow
HUC:14020001-SEP-ForecastedRunoff
HUC:14020001-SEP-ReservoirStorage

HUC 14020001 (East-Taylor) SWSI Values - SEP

Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14020001-SEP-PrevMoStreamflow-SWSI
HUC:14020001-SEP-ForecastedRunoff-SWSI
HUC:14020001-SEP-ReservoirStorage-SWSI
HUC:14020001-SEP-DataComposite-SWSI