
COLORADO

WATER SUPPLY CONDITIONS UPDATE

FROM THE OFFICE OF THE STATE ENGINEER: COLORADO DIVISION OF WATER RESOURCES
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November 1, 2016

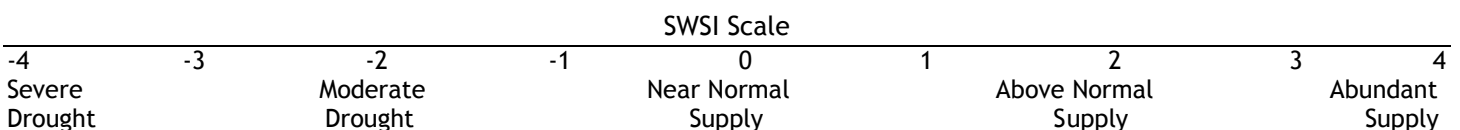
The Surface Water Supply Index (SWSI) is used as an indicator of water supply conditions in the seven major river basins of the state and in each of the 41 smaller watersheds, or HUCs. The Colorado Water Conservation Board (CWCB) completed a major revision to the Colorado Drought Plan in 2010. At that 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. For instance, in January, the total volume in a HUC is based on the forecasted runoff at specific locations plus the volume in storage in specific reservoirs. That total volume is ranked against similar total volumes that occurred each January between 1970 and 2010.

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

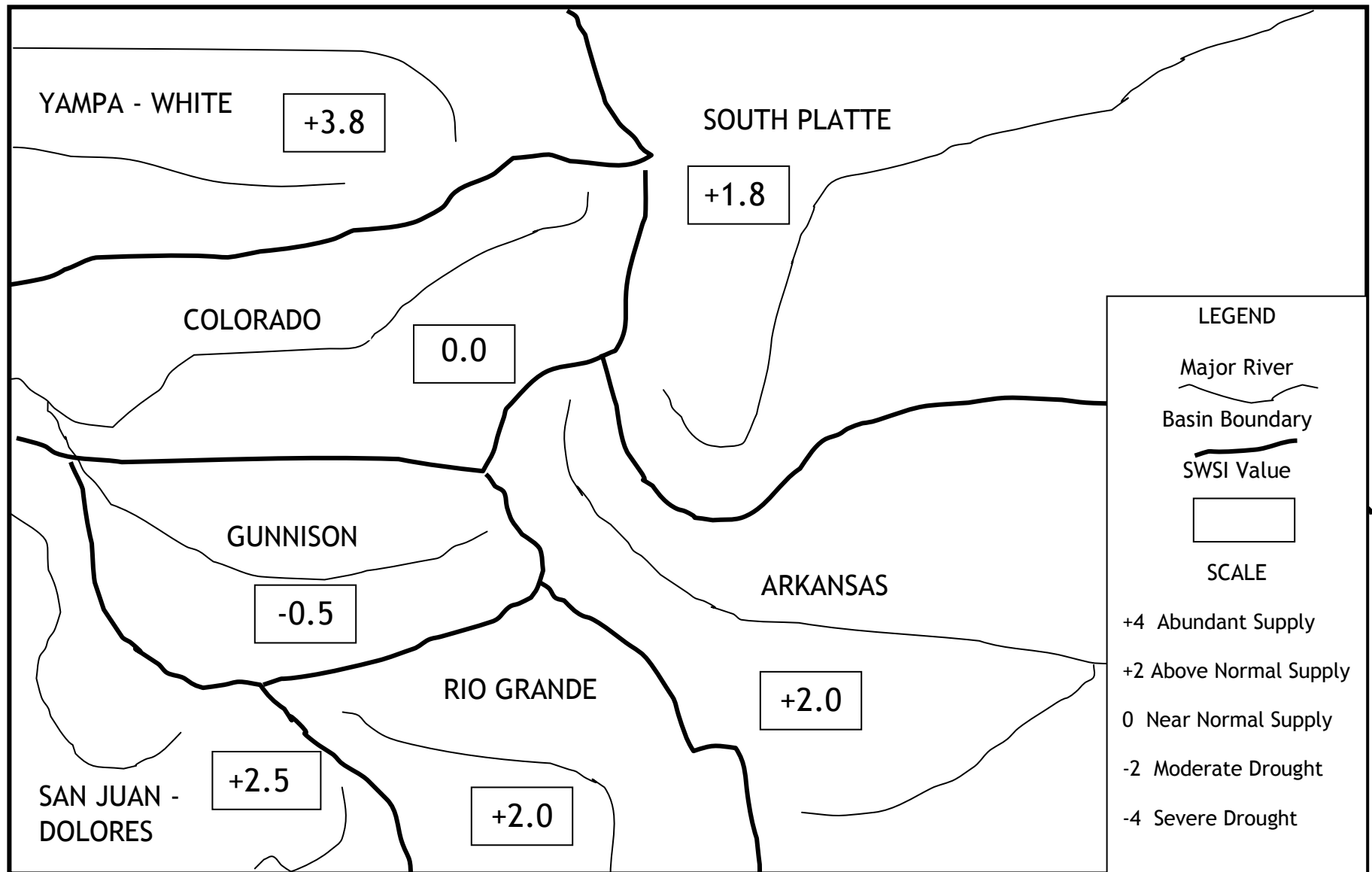
In 2015, CWCB and the Division of Water Resources (DWR) (both Divisions of the Colorado Department of Natural Resources) completed a software project to implement an automated calculation of the SWSI and to document the underlying hydrologic data. July 1, 2015 was the first month that the new DNR SWSI was published. The results are summarized within this monthly report and additional information, maps & data are available at: <http://water.state.co.us/DWRDocs/Reports/Pages/SWSIReport.aspx>. This document also contains reports about regional conditions prepared by each DWR Division Office.

The SWSI calculation for the fall season (October 1 to December 1) is based on reservoir storage at the end of last month, in this case October 31. Any action relying on the SWSI values from the fall season should only be used with the consideration that they are based on reservoir storage levels only. The statewide SWSI values for October (November 1) range from a low of -0.5 in the Gunnison Basin a high of 3.8 in the Yampa-White Basin. The following SWSI values were computed for each of the seven major basins for November 1, 2016. The results for each HUC are summarized on the following pages.

Basin	November 1 SWSI	Change from Previous Month	Change from Previous Year
Arkansas	2.0	0.0	-0.3
Colorado	0.0	-1.0	0.2
Gunnison	-0.5	-0.4	-2.2
Rio Grande	2.0	0.1	0.4
San Juan-Dolores	2.5	0.4	1.2
South Platte	1.8	-1.0	-0.9
Yampa-White	3.8	0.2	-0.2

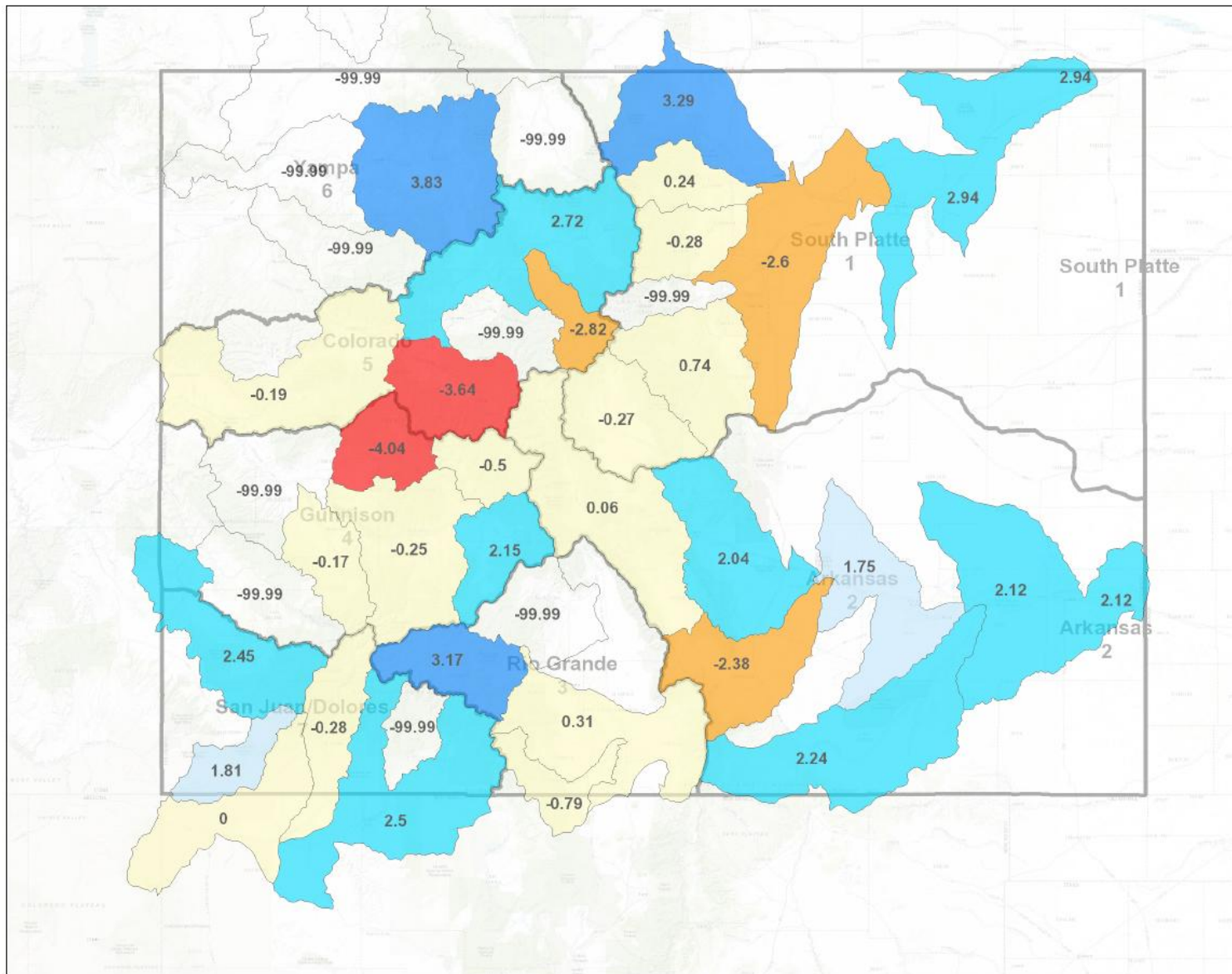


SURFACE WATER SUPPLY INDEX FOR COLORADO BY MAJOR RIVER BASIN



November 1, 2016

SURFACE WATER SUPPLY INDEX FOR COLORADO BY HUC



Legend

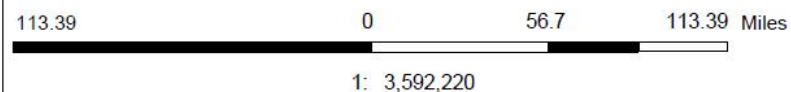
SWSI - Current Report

SWSI Not Applicable (-99.99)
 Extremely Dry (-3.0 - -4.2)
 Moderately Dry (-2.0 to -2.9)
 Slightly Dry (-1.0 to -1.9)
 Near Average (-0.9 to 0.9)
 Slightly Wet (1.0 to 1.9)
 Moderately Wet (2.0 to 2.9)
 Extremely Wet (3.0 to 4.2)

Division
 Citations

Location

Notes



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Date Prepared: 11/14/2016 8:02:15 AM

November 1, 2016

November 1, 2016 SWSI Values by HUC and Non Exceedance Probabilities (NEP)

Basin	HUC ID	HUC Name	SWSI	Reservoir Storage NEP	Total Vol (AF)
Arkansas	11020001	Arkansas Headwaters	0.1	51	200,200
	11020002	Upper Arkansas	2.0	74	180,300
	11020005	Upper Arkansas-Lake Meredith	1.8	71	30,800
	11020006	Huerfano River	-2.4	21	0
	11020009	Upper Arkansas-John Martin Reservoir	2.1	75	122,500
	11020010	Purgatoire River	2.2	77	21,000
Colorado	14010001	Colorado Headwaters	2.7	83	131,300
	14010002	Blue River	-2.8	16	72,700
	14010003	Eagle River			
	14010004	Roaring Fork	-3.6	6	73,000
	14010005	Colorado Headwaters-Plateau	-0.2	48	8,900
Gunnison	14020001	East-Taylor	-0.5	44	70,300
	14020002	Upper Gunnison	-0.3	47	726,600
	14020003	Tomichi Creek	2.2	76	600
	14020004	North Fork Gunnison	-4.0	1	100
	14020005	Lower Gunnison			
	14020006	Uncompahgre River	-0.2	48	58,400
	14030003	San Miguel			
Rio Grande	13010001	Rio Grande Headwaters	3.2	88	40,900
	13010002	Alamosa-Trinchera	0.3	54	5,503
	13010004	Saguache Creek			
	13010005	Conejos River	-0.8	40	16,800
San Juan-Dolores	14030002	Upper Dolores	2.5	79	312,500
	14080101	Upper San Juan	2.5	80	74,400
	14080102	Piedra River			
	14080104	Animas River	-0.3	47	19,500
	14080105	Middle San Juan	0.0	50	205
	14080107	Mancos River	1.8	72	5,400
South Platte	10190001	South Platte Headwaters	-0.3	47	143,600
	10190002	Upper South Platte	0.7	59	298,000
	10190003	Middle South Platte-Cherry Creek	-2.6	19	45,700
	10190004	Clear Creek			
	10190005	St. Vrain River	-0.3	47	50,500
	10190006	Big Thompson River	0.2	53	487,400
	10190007	Cache La Poudre	3.3	90	145,700
	10190012	Middle South Platte-Sterling	2.9	85	101,600
Yampa-White	10180001	North Platte Headwaters			
	14050001	Upper Yampa	3.8	96	40,000
	14050002	Lower Yampa			
	14050003	Little Snake			
	14050005	Upper White			

NEP is non exceedance percentage for total reservoir storage in HUC. Some HUCs do not have any reservoirs considered in the SWSI and do not have a SWSI for the October through December period. Total Vol is the volume of reservoir storage in the HUC. NEP is calculated compared to the volume of active storage historically occurring this month during the period 1970-2010. The following table lists each component considered in each HUC.

November 1, 2016 SWSI Component Information By HUC

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
11020001	Arkansas Headwaters	CLEAR CREEK RESERVOIR	6,000	57
		TURQUOISE LAKE	109,400	54
		TWIN LAKES RESERVOIR	42,700	30
		HOMESTAKE RESERVOIR	42,100	83
11020002	Upper Arkansas	PUEBLO RESERVOIR	180,300	75
11020005	Upper Arkansas-Lake Meredith	MEREDITH RESERVOIR	24,200	70
		LAKE HENRY	6,600	99
11020006	Huerfano River	CUCHARAS RESERVOIR*	0	21
11020009	Upper Arkansas-John Martin Reservoir	ADOBE CREEK RESERVOIR	28,600	80
		JOHN MARTIN RESERVOIR	93,900	75
11020010	Purgatoire River	TRINIDAD LAKE	21,000	77
14010001	Colorado Headwaters	WILLIAMS FORK RESERVOIR	79,100	65
		WOLFORD MOUNTAIN RESERVOIR	52,200	90
14010002	Blue River	GREEN MOUNTAIN RESERVOIR	72,700	16
14010004	Roaring Fork	RUEDI RESERVOIR	73,000	6
14010005	Colorado Headwaters-Plateau	VEGA RESERVOIR	8,900	48
14020001	East-Taylor	TAYLOR PARK RESERVOIR	70,300	44
14020002	Upper Gunnison	BLUE MESA RESERVOIR	608,400	47
		MORROW POINT RESERVOIR	106,400	4
		FRUITLAND RESERVOIR	500	57
		CRAWFORD RESERVOIR	9,300	92
		SILVER JACK RESERVOIR	2,000	17
14020003	Tomichi Creek	VOUGA RESERVOIR NEAR DOYLEVILLE	600	76
14020004	North Fork Gunnison	PAONIA RESERVOIR	100	1
14020006	Uncompahgre River	RIDGEWAY RESERVOIR	58,400	48
13010001	Rio Grande Headwaters	RIO GRANDE RESERVOIR	18,600	82
		SANTA MARIA RESERVOIR	15,800	88
		CONTINENTAL RESERVOIR	6,500	87
13010002	Alamosa-Trinchera	TERRACE RESERVOIR	2,500	45
		MOUNTAIN HOME	3,003	72
13010005	Conejos River	PLATORO RESERVOIR	16,800	40
14030002	Upper Dolores	GROUNDHOG RESERVOIR	17,500	98
		MCPHEE RESERVOIR	295,000	76
14080101	Upper San Juan	VALLECITO RESERVOIR	74,400	80
14080104	Animas River	LEMON RESERVOIR	19,500	47
14080105	Middle San Juan	LONG HOLLOW RESERVOIR	205	50
14080107	Mancos River	JACKSON GULCH RESERVOIR	5,400	72
10190001	South Platte Headwaters	ANTERO RESERVOIR	13,700	19
		ELEVENMILE CANYON RESERVOIR	99,500	79
		SPINNEY MOUNTAIN RESERVOIR	30,400	53

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
10190002	Upper South Platte	CHEESMAN LAKE	63,100	58
		DILLON RESERVOIR	234,900	53
10190003	Middle South Platte-Cherry Creek	BARR LAKE	12,200	38
		MILTON RESERVOIR	100	3
		STANDLEY RESERVOIR	32,100	41
		HORSECREEK RESERVOIR	1,300	33
10190005	St. Vrain River	GROSS RESERVOIR	16,600	42
		MARSHALL RESERVOIR	4,500	50
		BUTTONROCK (RALPH PRICE) RESERVOIR	13,600	17
		TERRY RESERVOIR	5,000	56
		UNION RESERVOIR	10,800	55
10190006	Big Thompson River	BOYD LAKE	28,000	45
		CARTER LAKE	44,600	33
		LAKE LOVELAND RESERVOIR	4,400	18
		LONE TREE RESERVOIR	2,000	14
		MARIANO RESERVOIR	900	23
		LAKE GRANBY	399,800	61
		WILLOW CREEK RESERVOIR	7,700	40
10190007	Cache La Poudre	BLACK HOLLOW RESERVOIR	3,400	91
		CACHE LA POUDRE	2,400	27
		CHAMBERS LAKE	3,200	65
		COBB LAKE	17,200	69
		FOSSIL CREEK RESERVOIR	7,100	89
		HALLIGAN RESERVOIR	3,600	87
		HORSETOOTH RESERVOIR	105,500	94
		WINDSOR RESERVOIR	3,300	25
10190012	Middle South Platte-Sterling	EMPIRE RESERVOIR	7,600	48
		JACKSON LAKE RESERVOIR	20,800	95
		JULESBURG RESERVOIR	13,600	62
		POINT OF ROCKS RESERVOIR	16,000	53
		PREWITT RESERVOIR	12,600	51
		RIVERSIDE RESERVOIR	31,000	97
14050001	Upper Yampa	STAGECOACH RESERVOIR NR OAK CREEK	34,900	99
		YAMCOLO RESERVOIR	5,100	65

NEP is non exceedance percentage (percentile) for volume of the component compared to this month during the historical period 1970-2010.

*Empty, filling restriction

Basinwide Conditions Assessment

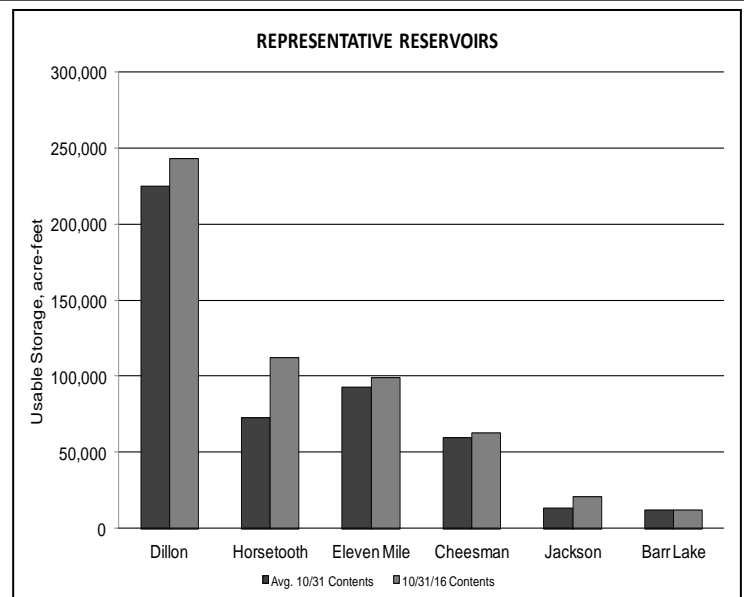
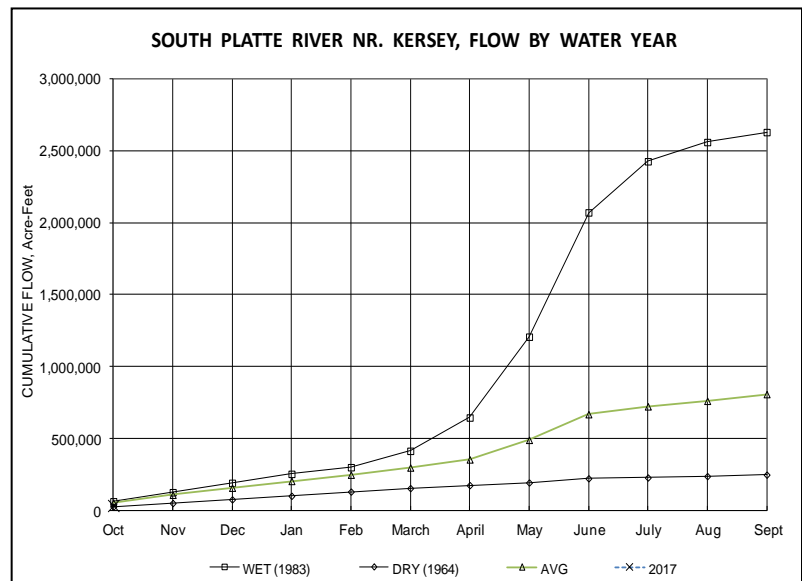
The SWSI value for the month was +1.8 based on reservoir storage. October 2016 continued the very hot and dry conditions from September in northeast Colorado. Temperatures over virtually the entire area were above or well above normal for the month with October 2016 going down as the 5th hottest October on record for Denver. Precipitation was also well below normal over northeast Colorado in October with most of the area reporting less than 0.1 inch of precipitation (less than 10% of normal).

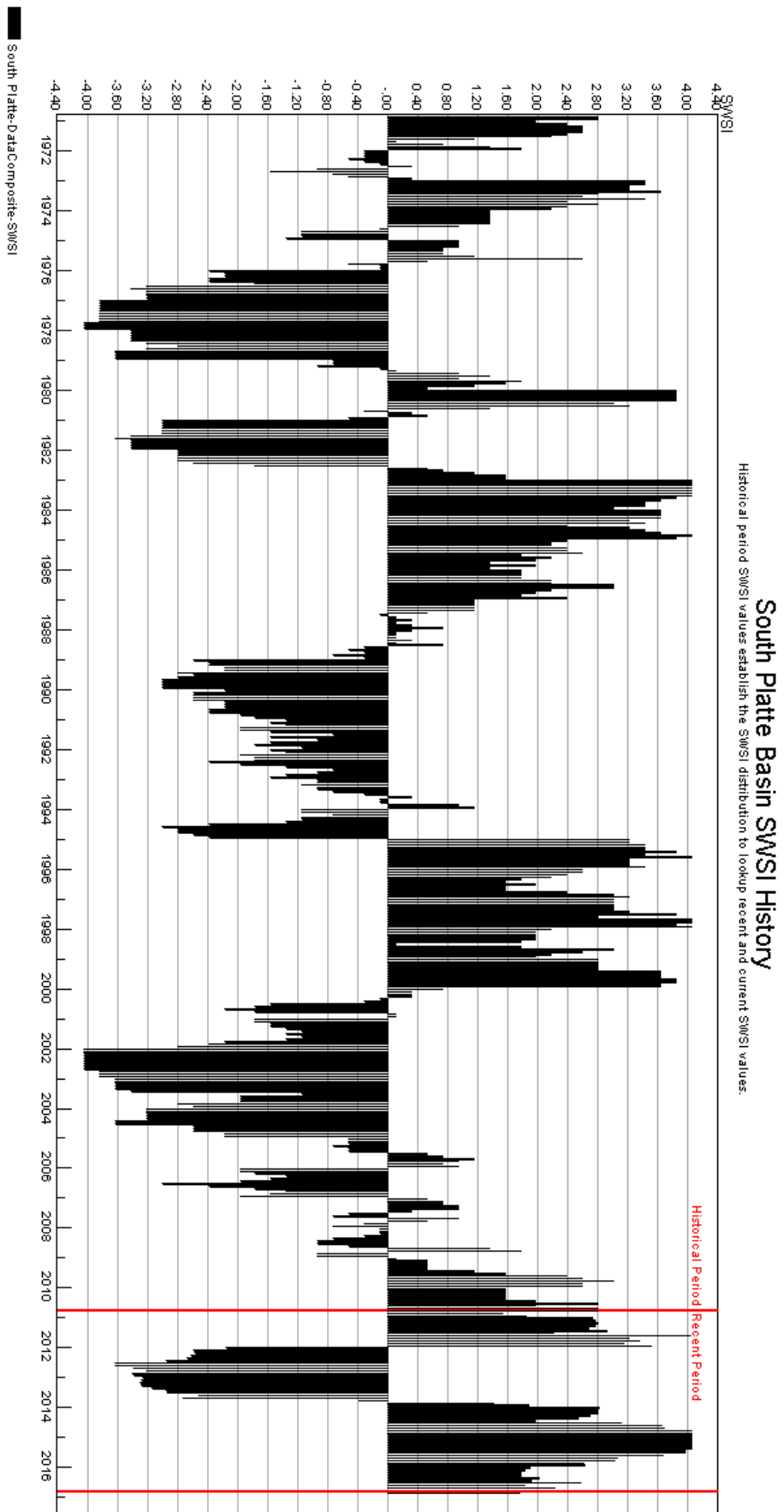
As could be expected with the hot and dry conditions, the area within the USDA Drought Monitor “Abnormally Dry (D0)” area expanded to include all of northeast Colorado by November 1. In addition, the area covered by the next drought rating, D1 “Moderate Drought”, expanded significantly from just the northern Front Range and areas northeast and east of the Denver metro area to include all of the mountains north of Park County and most of the area in northeast Colorado east of Adams County.

The October flow in the South Platte River at both the Kersey and Julesburg index gages continued the new trend of below average flows for the 4th month in a row. The overall October mean flow at the Kersey gage was approximately 532 cfs or approximately 80% of the period of record mean flow of 667 cfs. The overall October mean flow at the Julesburg gage was about 134 cfs or approximately 45% of the period of record mean flow of 299 cfs.

Despite the low flow conditions, the calls on the South Platte mainstem remained very junior below metro Denver for the entire month. However, this was due mostly to maintenance projects being done on almost all the major reservoirs below metro Denver, preventing them from diverting water. The South Platte Compact call remained off from October 1 through 15 and Water District 64 was under free river conditions the entire month. Most of the major South Platte tributaries were internally controlled (under an internal call senior to the South Platte mainstem call) the entire month.

The storage picture remains largely unchanged from October to September. The combination of low stream flows and completion of some structure maintenance work by reservoir operators contributed to minimal change in overall storage in October. The end of October storage was still at about 57% of capacity (the same as the end of September), but better than the long term end of October average of 53% of capacity.





Basinwide Conditions Assessment

The SWSI value for the month was +2.0 based on reservoir storage.

Outlook

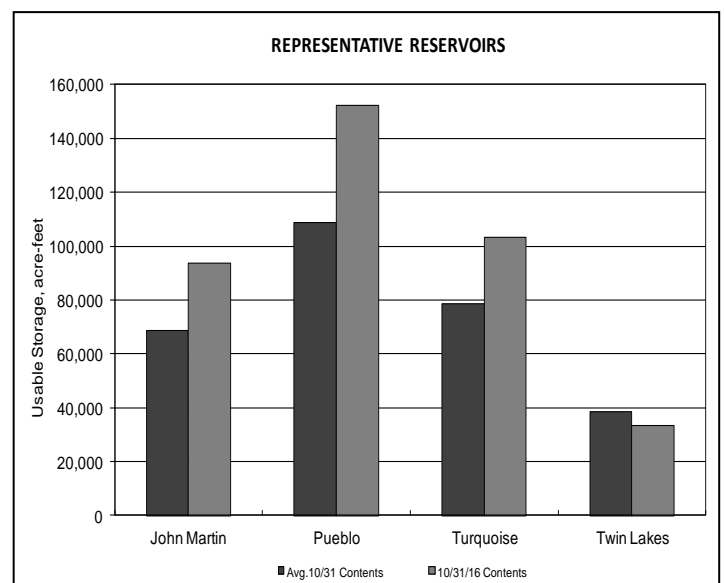
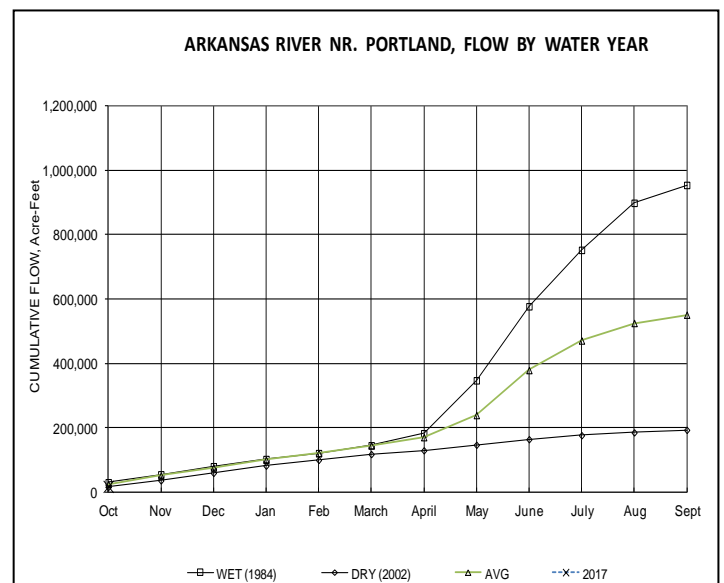
The river call during October remained on the 12/3/1884 Catlin Canal call during the entire month until the last day when a slightly more junior Oxford Canal call came into effect. Below John Martin Reservoir the river call all month was either the Amity Canal or the Lamar Canal.

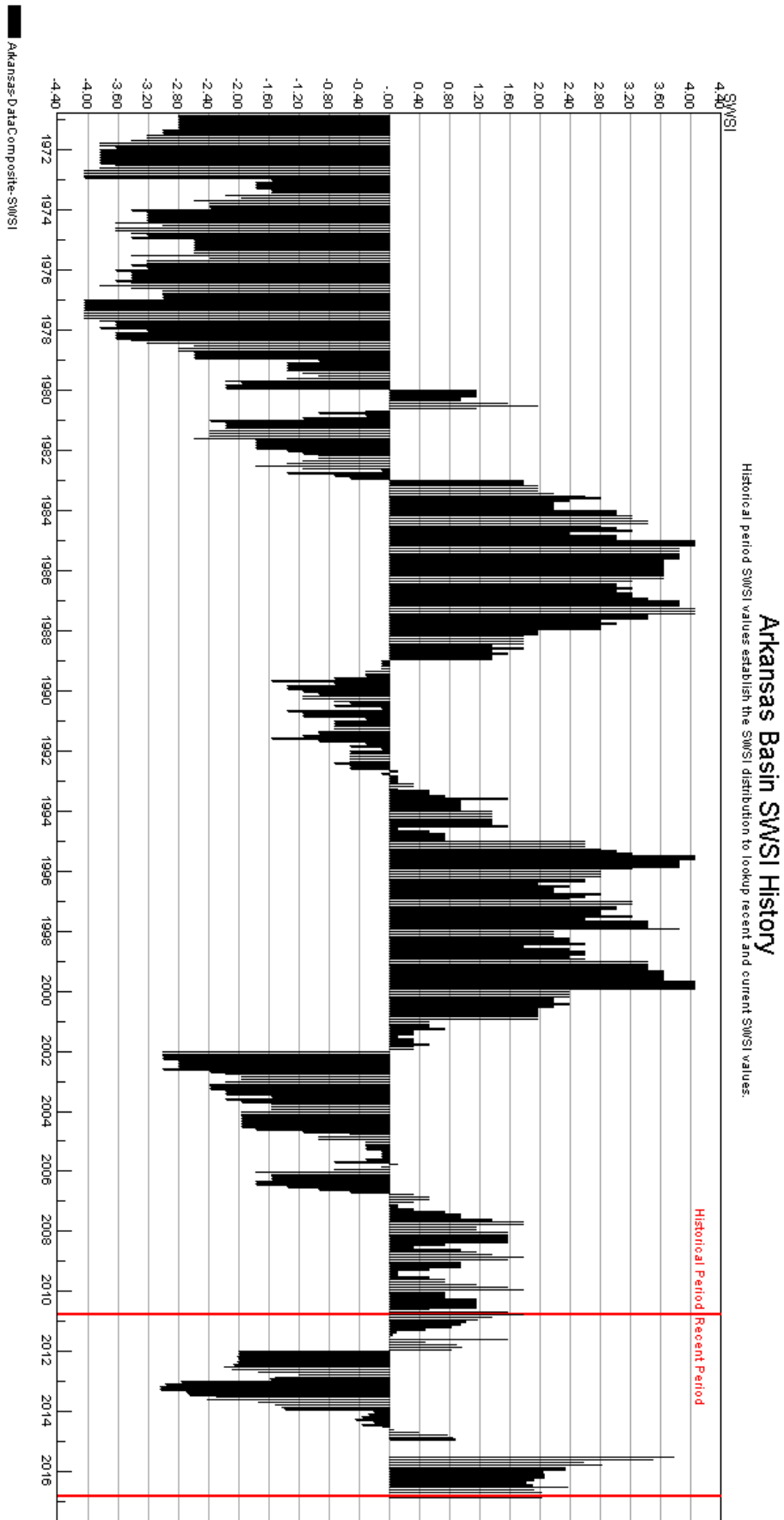
A meeting of the Winter Water Board of Directors was held on October 21, 2016. Planning for the upcoming storage season which runs from November 15, 2016 through March 14, 2017 was the topic at this meeting.

Winter Compact storage in John Martin Reservoir began at midnight on October 31, 2016. Storage in Trinidad Reservoir began on October 15, 2016.

Administrative/Management Concerns

A persistent lack of precipitation has characterized the fall months in the Arkansas Basin. Leading into to the winter storage period, the river flow through Canon City (indicator for Pueblo Reservoir storage) represent about 75% of the flow in 2015 while the flow through La Junta (indicator for John Martin Reservoir storage) is less than 47% of the flow in 2015. Winter storage during 2015 was very good, but does not look like it will be repeated in 2016. The current flows are nearer the flows that occurred in 2012 prior to the storage season. The Pueblo Winter Water Storage Program stored approximately 67,000 acre-feet during the 2012-13 season versus the 2015-16 storage that exceeded 150,000 acre-feet.





Basinwide Conditions Assessment

The SWSI value for the month was +2.0 based on reservoir storage. Flow at the gaging station Rio Grande near Del Norte averaged 411 cfs (85% of normal). The Conejos River near Mogote had a mean flow of 106 cfs (79% of normal). Streamflow in the majority of the upper Rio Grande basin was below average during October due to the lack of precipitation. The Conejos River and its tributaries continue to languish with below average precipitation and streamflow for current and past 6 years. In fact, the southern portion of the San Luis Valley had poor runoff in 2016.

A month of sparse rainfall on the mountains and plains reduced streamflow in the San Luis Valley. However the precipitation in Alamosa will finish above the annual average due to the wet spring months.

Reservoir storage in the basin has been depleted to help meet irrigation demand.

Outlook

Recently-released National Weather Service 90-day precipitation and temperature outlooks call for above average temperatures this winter and below average precipitation. This would certainly continue the trend of the past.

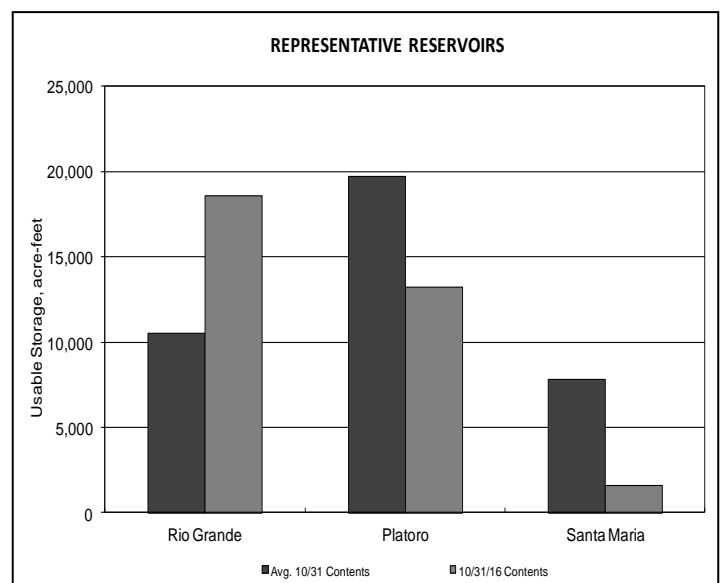
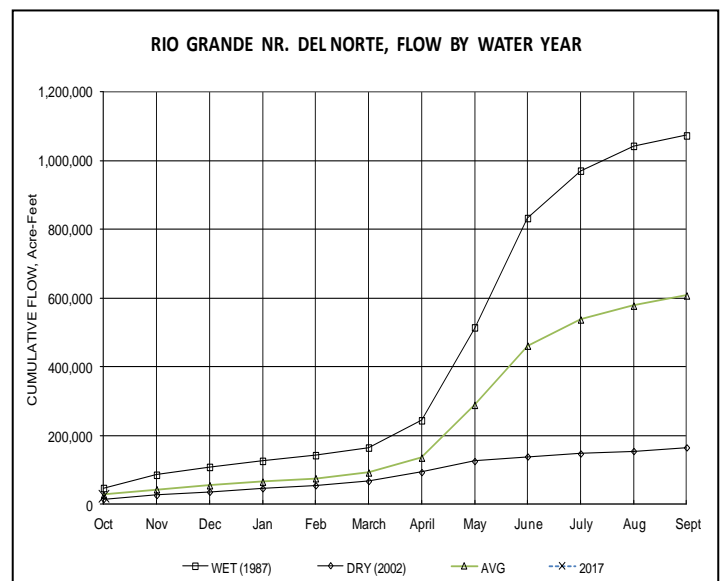
Administrative/Management Concerns

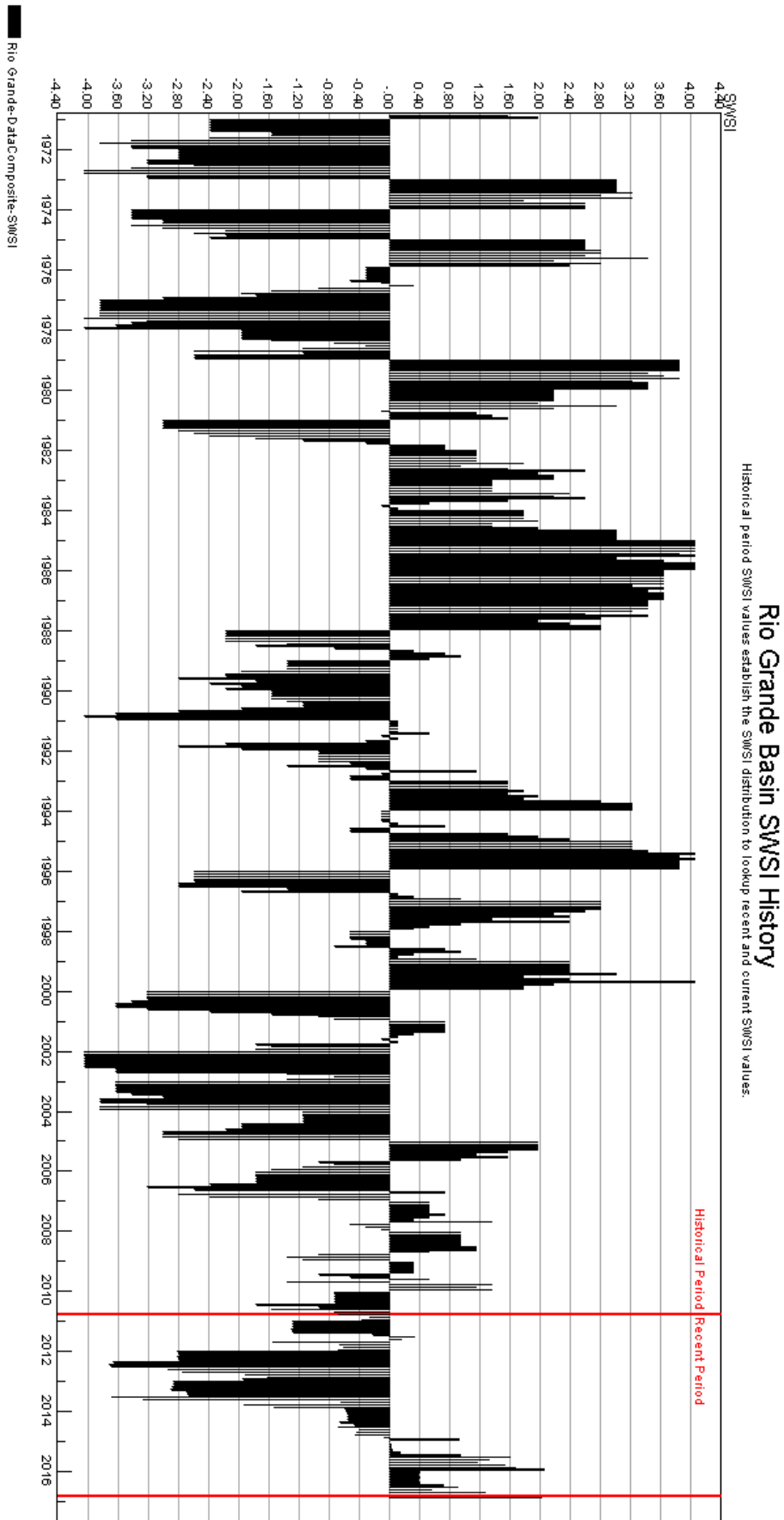
The State Engineer's policy no. 2010-01 dealing with the irrigation season within Water Division No. 3 is in effect. Water users in the Conejos River system, the Alamosa / La Jara Creek drainages, the northern drainages, and the Fort Garland area creeks were required to discontinue all diversion of water from ditches, reservoirs and wells at the end-of-day November 1. The Rio Grande and its tributaries, the Culebra drainage, and the La Garita area had a November 8th at midnight shut-off.

Public Use Impact

Autumn is the ideal time for ranchers, irrigators, and hydrographers to fix their water diversion and measurement structures. The Division hydrography staff has been busy repairing gaging stations and preparing new flow control devices and river sections. The Rio Grande at 30-mile gaging station above Creede is an example of an upgrade in the measurement section.

The fall weather patterns have been unseasonably warm and dry this year.





Basinwide Conditions Assessment

The SWSI value for the month was -0.5 based on reservoir storage. Gunnison basin conditions during October were extremely dry with areas south of the Gunnison River mainstem receiving less than 30% of the 30 year average precipitation and remaining areas receiving 30% to 50% of average. Temperatures across the basin were 5 to 7 degrees above average during November as well. Unfortunately, over 70% of the time that the season begins with poor October snowpack the season has ended with less than average end of season snowpack. Thankfully that isn't always the case, however, and hopefully the 2016-2017 season ends more like 2008 when the season started poorly, but ended with well above average snowpack because as of November 10th the Gunnison basin stands at only 6% of the 30 year median snowpack.

Outlook

The National Weather Service (NWS) climate forecast for November indicates that dry and warm conditions will continue with less than average precipitation and above average temperatures predicted. The NWS 90-day forecast for precipitation is more uncertain with equal chances of below or above average precipitation forecast, but above average temperatures expected from November through January.

Administrative/Management Concerns

During the month of October the Gunnison Tunnel reduced their diversions to an average of 900 cfs, however, because of the dry conditions those diversions exceeded the natural inflow for the entire month of October resulting in the use of 16,746 acre-feet of Taylor Park 2nd fill storage. Taylor Park ended the storage season on October 31st with 70,258 acre-feet in storage while the first fill account in Blue Mesa Reservoir contained 82,675 acre-feet. As a result, the 2016-2017 season began on November 1st with a full Taylor Park first fill account. That account begins the season with 70,258 acre-feet physically in Taylor Park and 35,972 acre-feet stored in Blue Mesa. The remaining 46,703 acre-feet that was in Blue Mesa rolls over as storage under the water right held by the USBR.

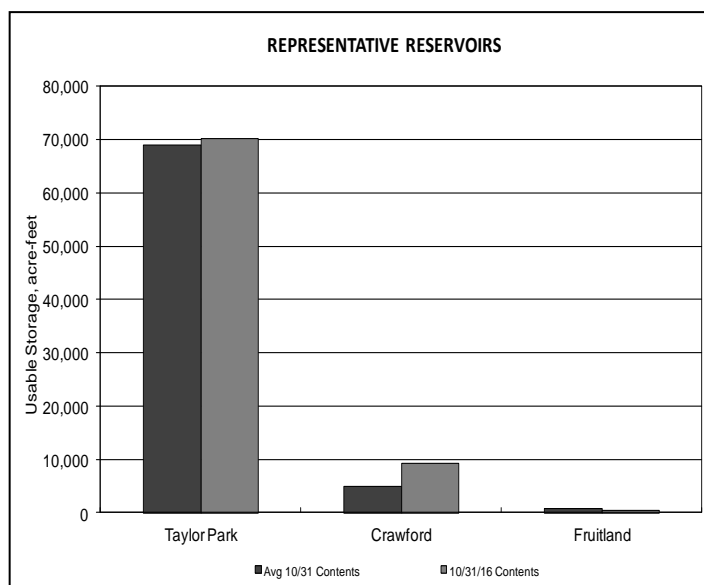
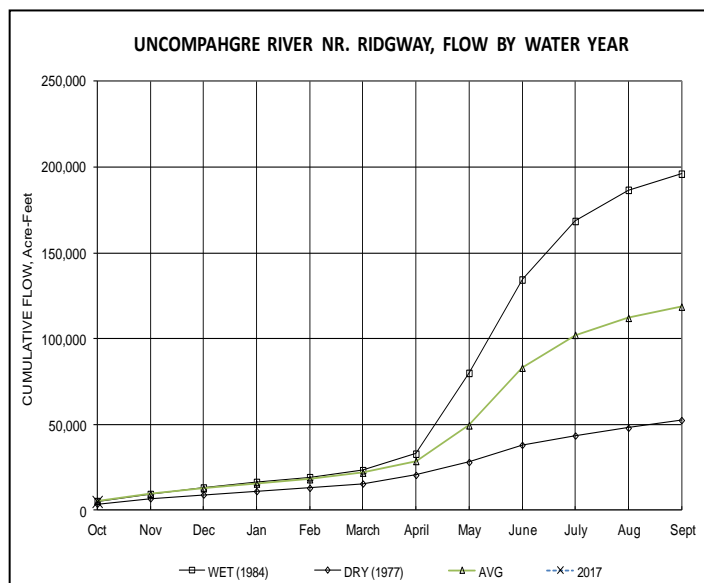
Blue Mesa Reservoir ended the month of October at only 3 feet above the target to prevent icing impacts upstream. This is much closer to the icing target than in 2015 when Blue Mesa began winter at 11 feet above the 7490.00 feet target.

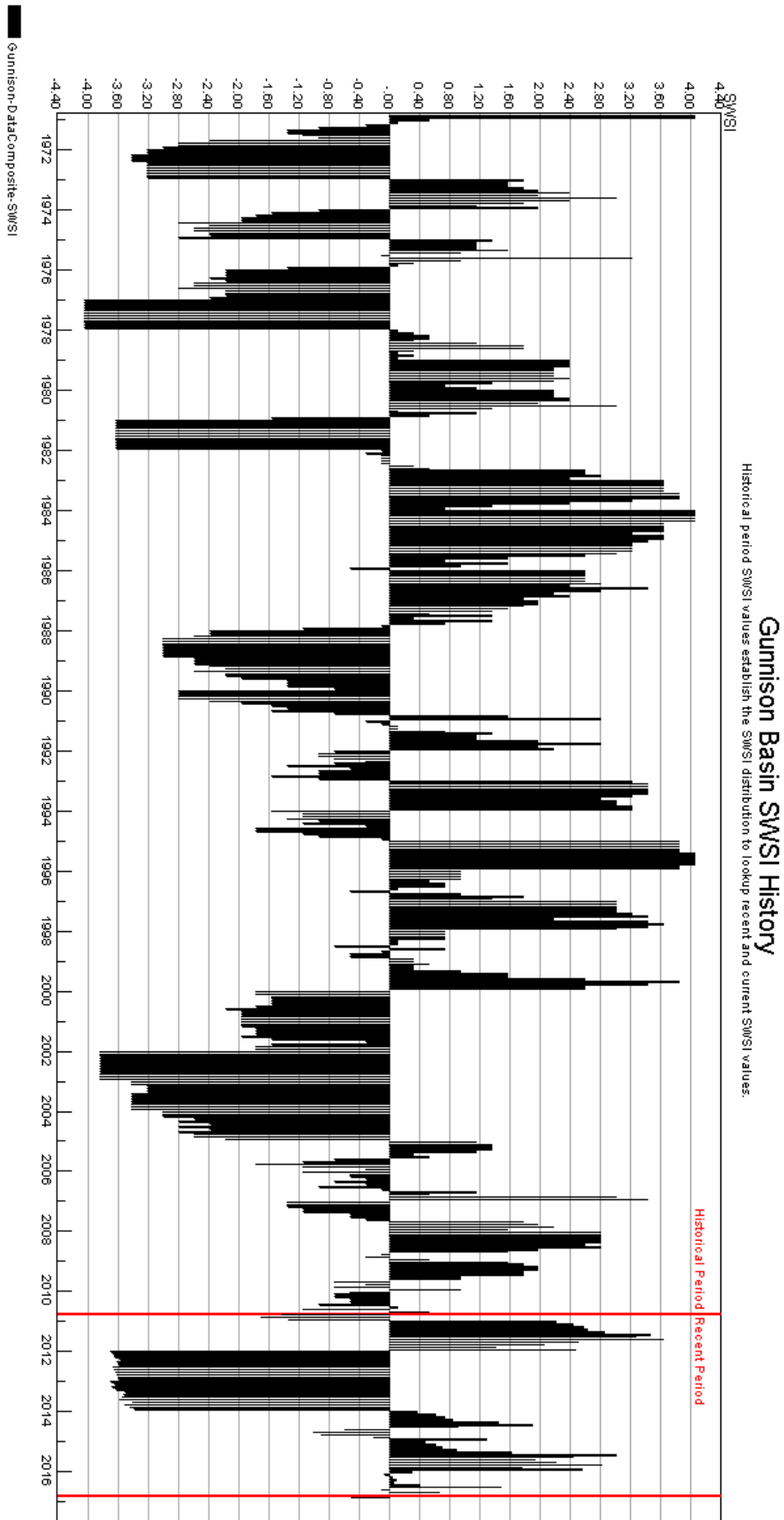
The USBR had planned to complete a critical outlet repair at Paonia Reservoir this fall, but due to delays in receiving NEPA authorization caused by US Army Corps of Engineers concerns regarding the release of sediment, this project has been postponed until the fall of 2017.

The instream flow (ISF) on the Slate River remained on call for much of October and administration of the ISF was complicated by the construction at Meridian Lake Park Reservoir (MLP), which is located between the Slate River and the basin-wide augmentation pool in Meridian Lake (Long Lake) owned by the Upper Gunnison River Water Conservancy District (UGRWCD). The UGRWCD and the Mt. Crested Butte Water and Sanitation District (MCBWS), which owns MLP, has agreed that in addition to satisfying the ISF by releasing augmentation water that they will release enough water to partially fill MLP during November. This great example of cooperation between water users will prevent icing damage to the new outlet structure at MLP and if necessary next year, the Long Lake water stored in MLP will be released for augmentation during a Slate River call.

Public Use Impacts

Obviously, with Thanksgiving approaching and almost no natural snow on the ground at the two major Gunnison basin resorts of Telluride and Crested Butte there is concern about an extremely poor start to ski season. In fact, Crested Butte and Telluride have struggled to make snow as well due to the well above average temperatures. Hopefully the forecast for continued dry conditions will prove incorrect by the end of the month.





Basinwide Conditions Assessment

The SWSI value for the month was 0.0 based on reservoir storage.

Outlook

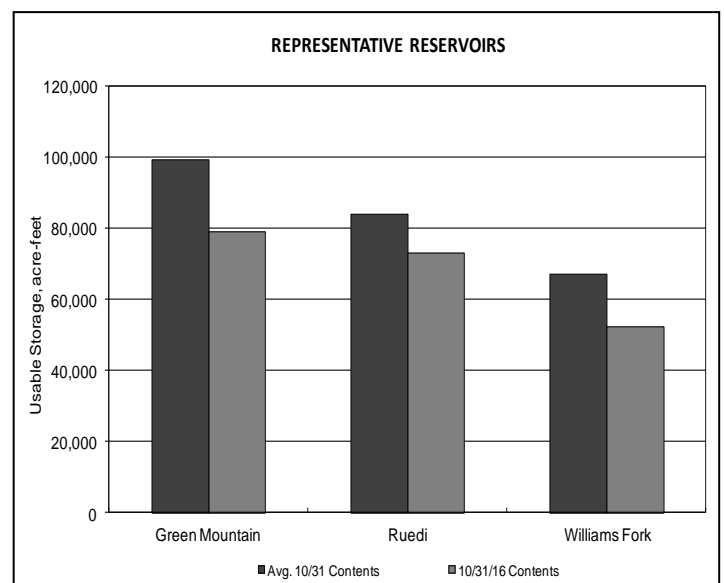
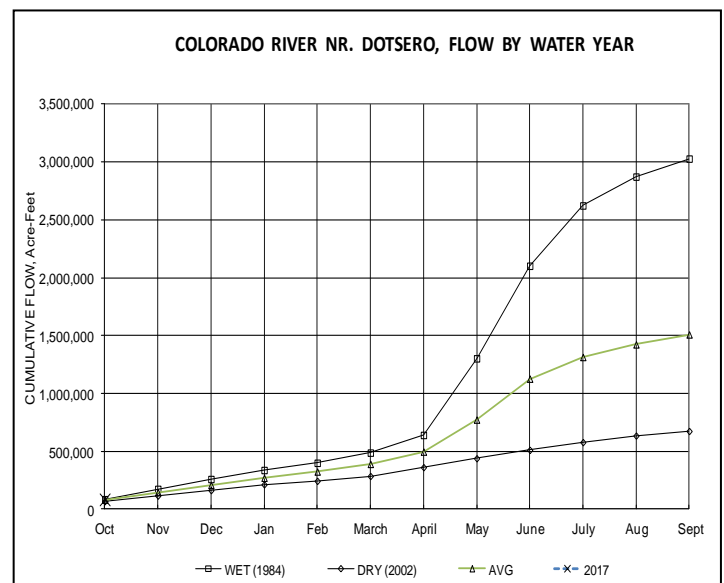
Colorado River flows continue to fall to below average with tributary flows running below average throughout November. An equal chance of normal to above precipitation with above average temperature is forecast for western Colorado through November.

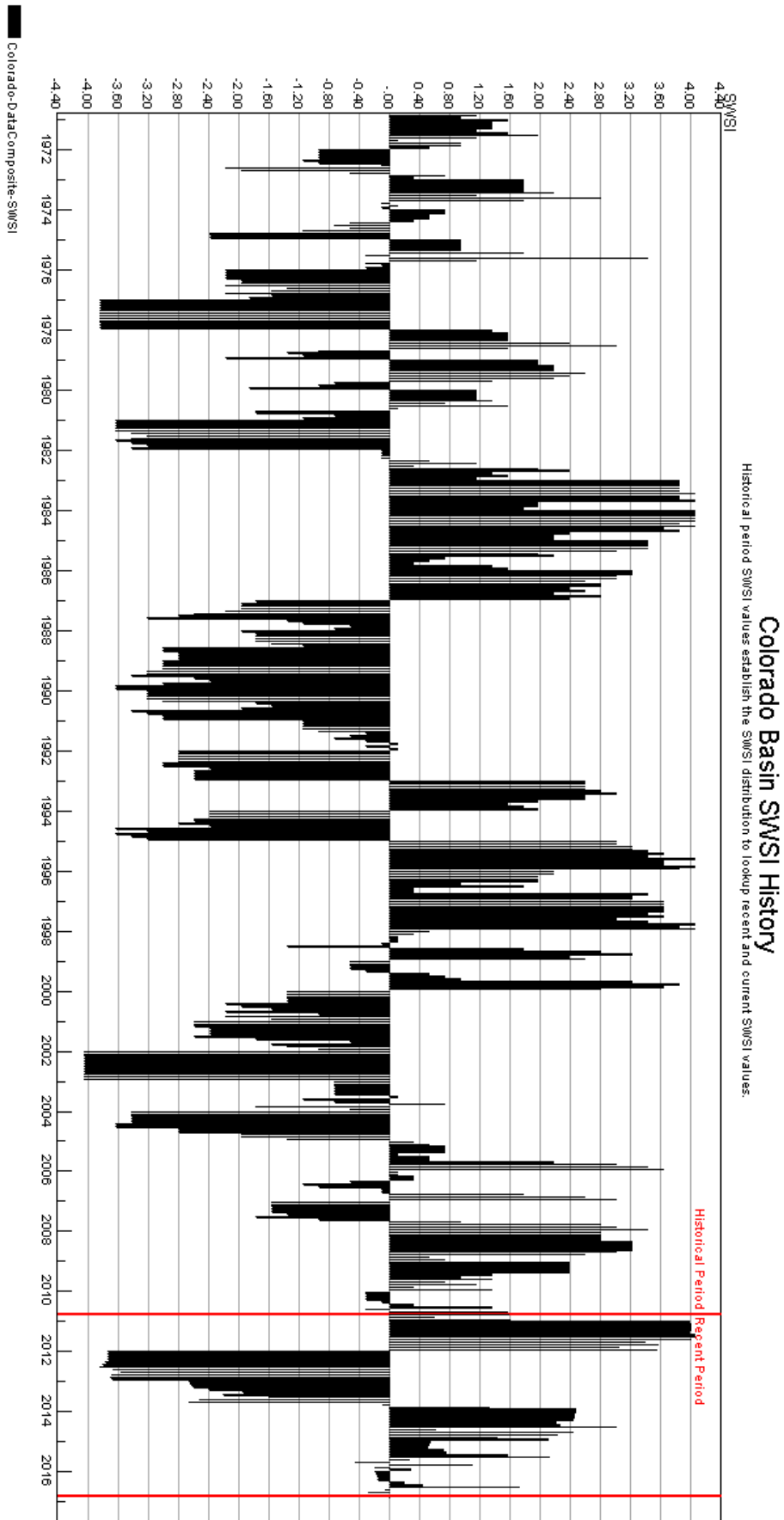
Administrative/Management Concerns

As of October 28, the call on the Colorado River main stem is the Shoshone Hydro Power Right for 1250 cfs. Grand Valley Irrigation diversions (Government Highline/Orchard Mesa Irrigation, Grand Valley Irrigation canals) have discontinued diverting for the season. The Orchard Mesa Irrigation District above Palisade (ORCHIDCO) gage will start diverting for the Grand Valley Power Plant by the end of the month for the duration of the winter. Green Mountain is releasing to pass inflows, release contract water, CB-T replacement water and HUP water.

Public Use Impacts

Ski areas are gearing up to open for the 2016-17 ski season, with a couple already open. As the weather cools down, most, if not all of the ski areas will be making snow and will continue through November.





Basinwide Conditions Assessment

The SWSI value for the month was +3.8 based on reservoir storage. October precipitation was 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 72% 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 October is 72%.

All seasonal gages in Division 6 have been closed for winter. The gages above Lake Catamount (YAMABVCO) and on the Williams Fork River (WMFKMHCO) will remain open through the winter.

Outlook

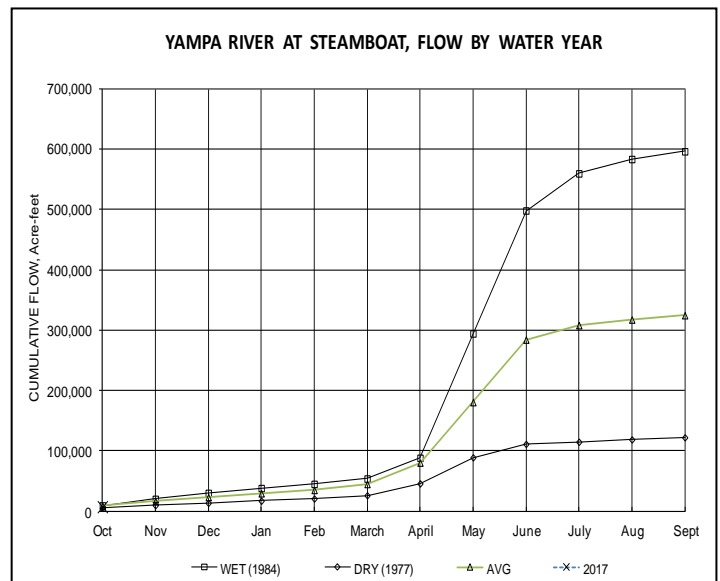
As of October 31st Fish Creek Reservoir was storing approximately 3,103 AF, 74% of capacity. The capacity of Fish Creek Reservoir is 4,167 AF. Yamcolo Reservoir was storing 5,100 AF at the end of October 2016. The capacity of Yamcolo Reservoir is 8,700 AF. On October 31st, 2016, Stagecoach Reservoir was storing 34,900 AF which is 105% of capacity. On October 31st, Elkhead Creek Reservoir was 97% full and storing 24,062.

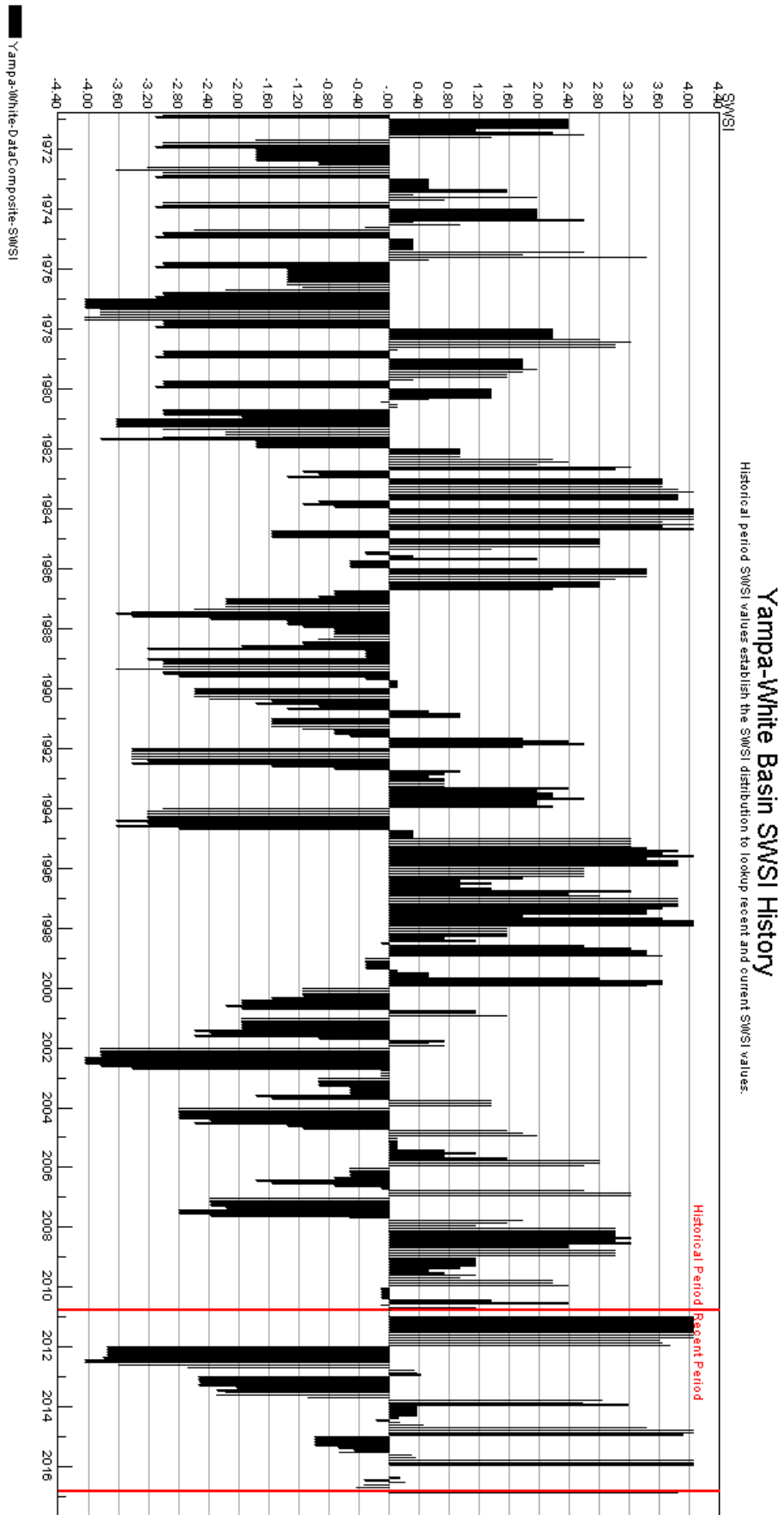
Water stored in Fish Creek Reservoir is used primarily for municipal purposes, Water stored in Yamcolo Reservoir is used for irrigation purposes. Elkhead Creek Reservoir is used for municipal, industrial, recreational, and fish recovery releases. Stagecoach Reservoir is primarily used for recreation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

Public Use Impacts

At Steamboat Lake State all boat ramps, the marina and the swim beach are now closed. Fishing is reported as really picking up with many larger fish being caught.

At Stagecoach Reservoir State Park all boat ramps are closed. The swim beach is closed. For details on fishing, please visit the Stagecoach Park conditions site at <http://cpw.state.co.us/placestogo/Parks>.



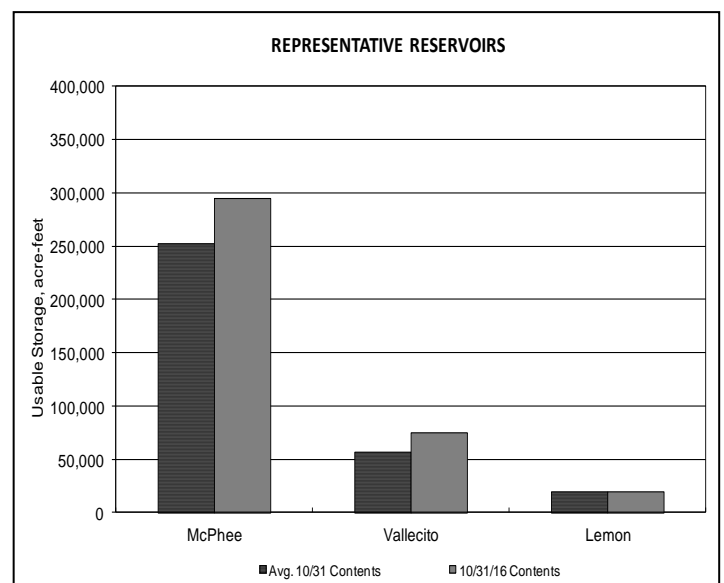
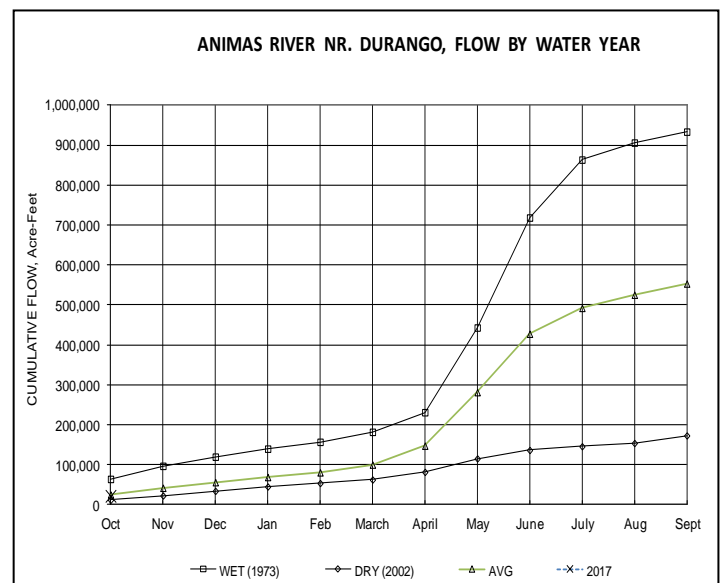


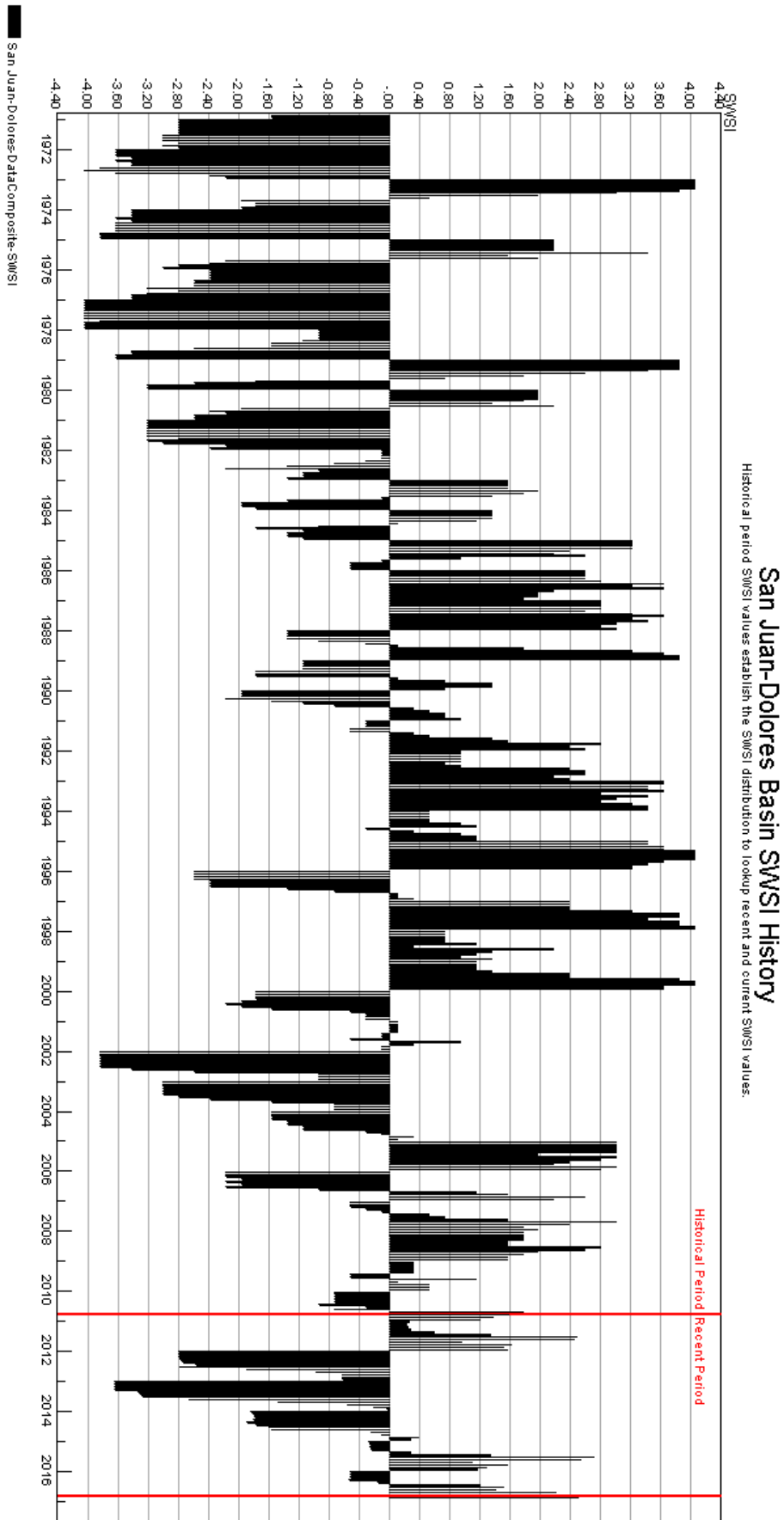
Basinwide Conditions Assessment

The SWSI value for the month was +2.5 based on reservoir storage. Flow at the Animas River at Durango averaged 353 cfs (84% of average). The flow at the Dolores River at Dolores averaged 87 cfs (65% of average). The La Plata River at Hesperus averaged 6 cfs (32% of average). Precipitation in Durango was 1.07 inches for the month, 55% of the 30-year average of 1.96 inches. Precipitation was the 81st highest amount recorded in October, in Durango, out of 122 years of record. Precipitation to date in Durango, for the water year, is 1.07 inches, 55% of the 30-year average of 1.96 inches. End of last month precipitation to date, for the water year was 110% of average. The average high and low temperatures for the month of October in Durango were 71° and 35°. In comparison, the 30-year average high and low for the month is 66° and 34°. At the end of the month Vallecito Reservoir contained 75,244 acre-feet compared to its average content of 52,881 acre-feet (142% of average). McPhee Reservoir was up to 295,081 acre-feet compared to its average content of 260,598 (113% of average), while Lemon Reservoir was up to 19,820 acre-feet as compared to its average content of 19,247 acre-feet (103% of average).

Outlook

Precipitation (1.07 inches) was below average for October in Durango. There were 81 years out of 122 years of record where there was more precipitation than this year. Of the 1.07 inches of precipitation, 88% of the total fell in one day of the month. Flows in the rivers within the basin remained below average. There were 42 out of 106 years of record where the total flow past the Animas River at Durango stream gauge was more than this year. There were 61 out of 108 years of record where the total flow past the Dolores stream gauge was more than this year and 89 out of 100 years of record where the total flow past the La Plata River at Hesperus gauge was more than this year.





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

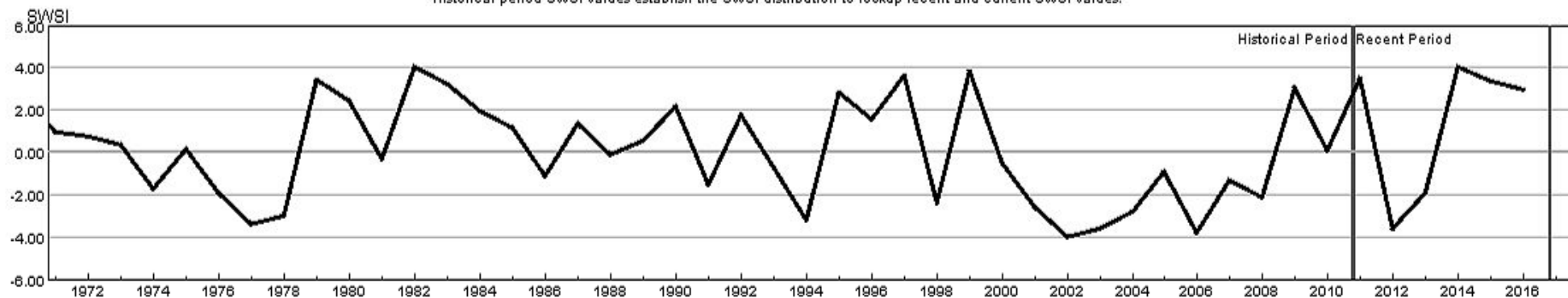
Monthly component volumes



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

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

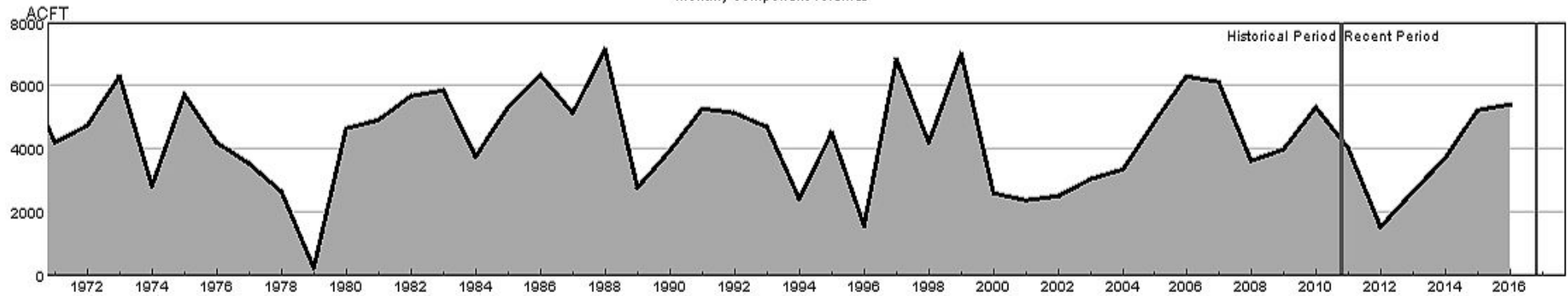
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14080107 (Mancos) Surface Water Supply - NOV

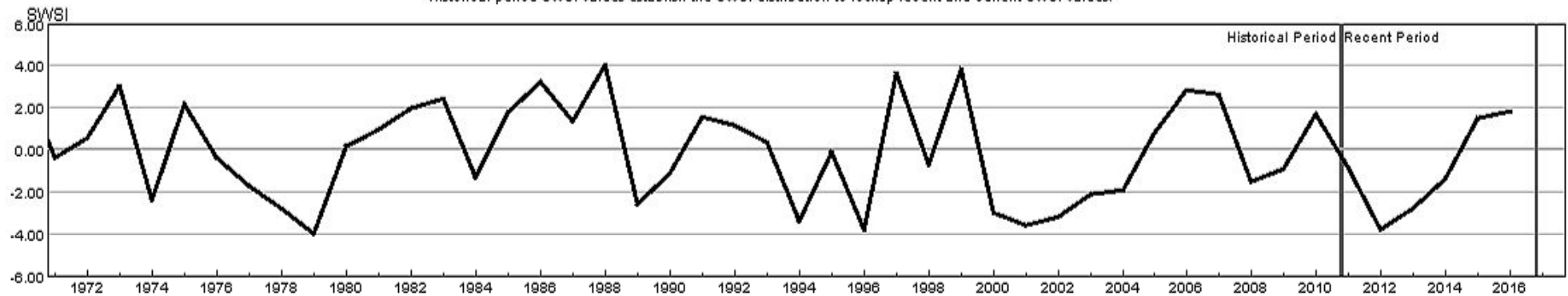
Monthly component volumes



HUC:14080107-NOV-DataComposite
 HUC:14080107-NOV-PrevMoStreamflow
 HUC:14080107-NOV-ForecastedRunoff
 HUC:14080107-NOV-ReservoirStorage

HUC 14080107 (Mancos) SWSI Values - NOV

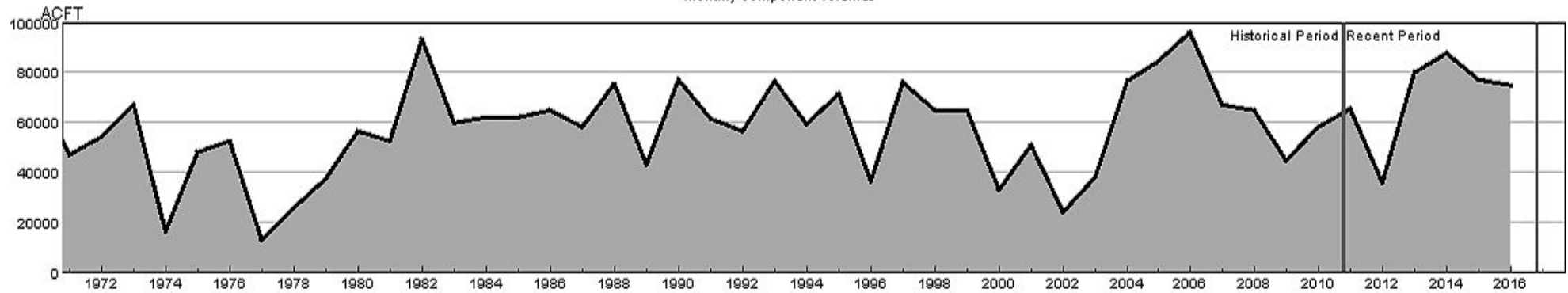
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

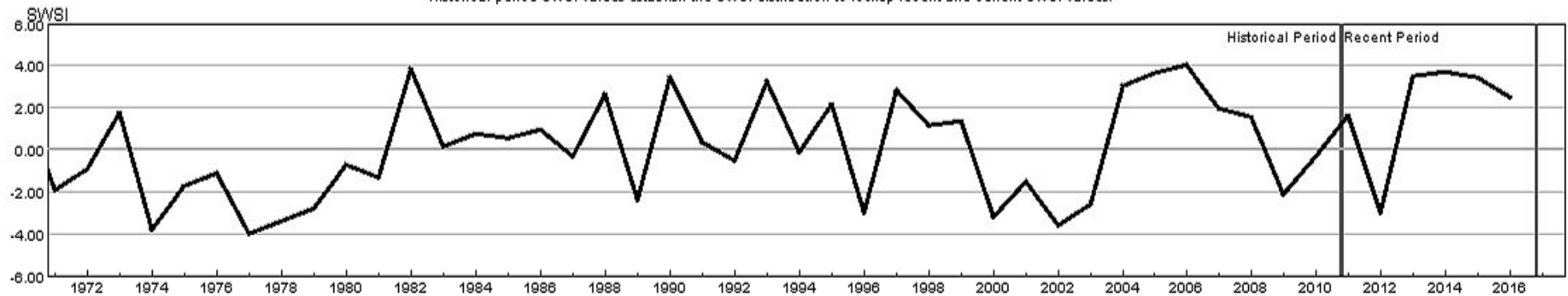
Monthly component volumes



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

HUC 14080101 (Upper San Juan) SWSI Values - NOV

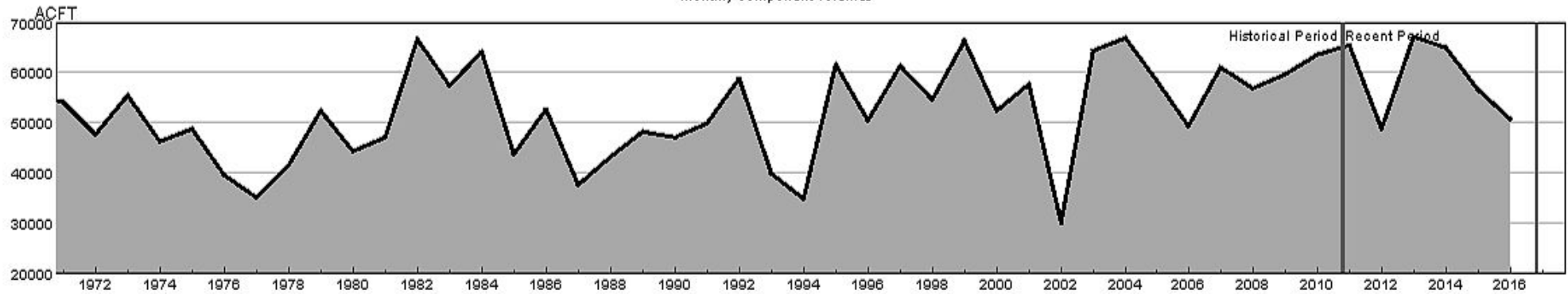
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

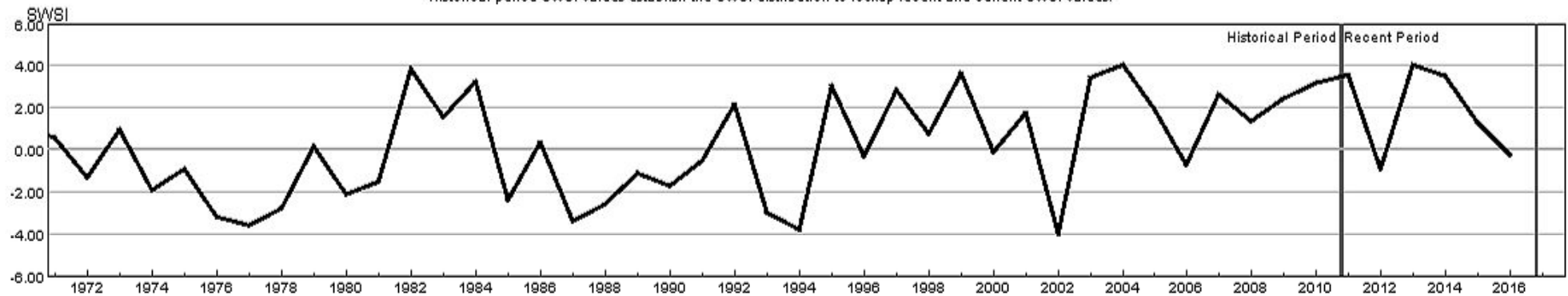
Monthly component volumes



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

HUC 10190005 (St. Vrain) SWSI Values - NOV

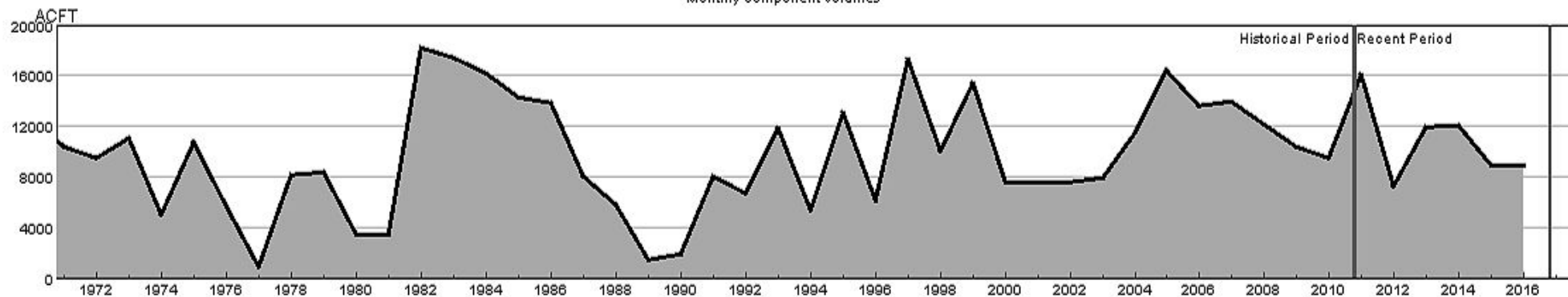
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

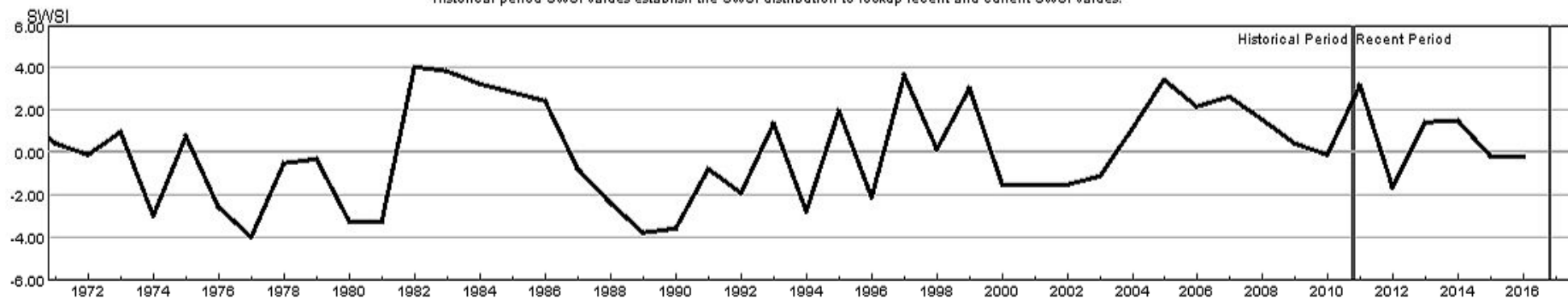
Monthly component volumes



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

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

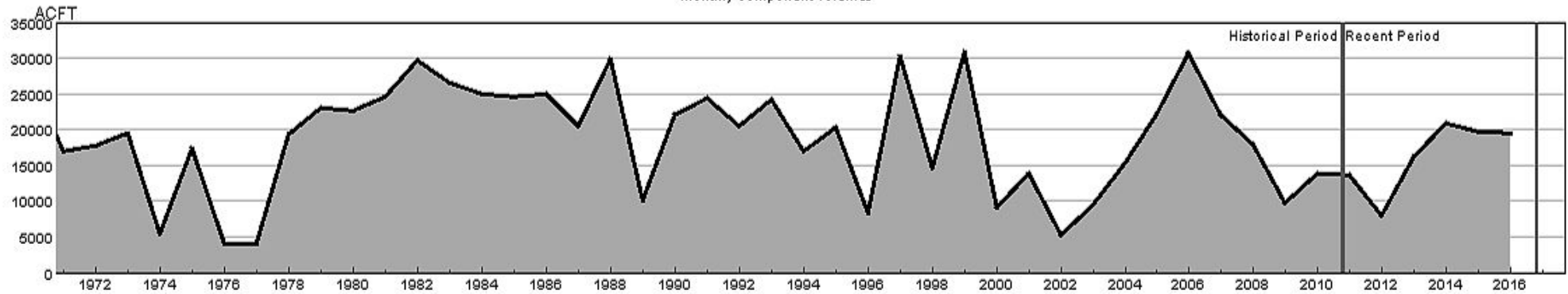
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14080104 (Animas) Surface Water Supply - NOV

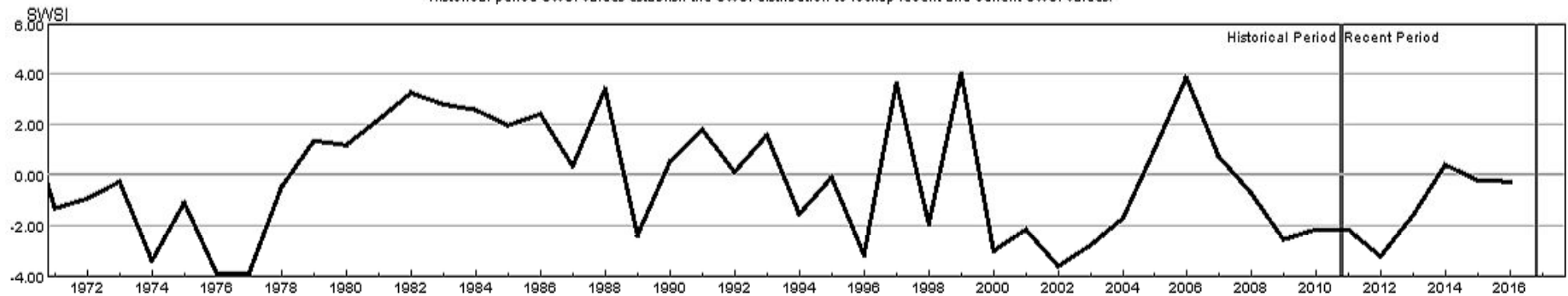
Monthly component volumes



HUC:14080104-NOV-DataComposite
 HUC:14080104-NOV-PrevMoStreamflow
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 HUC:14080104-NOV-ReservoirStorage

HUC 14080104 (Animas) SWSI Values - NOV

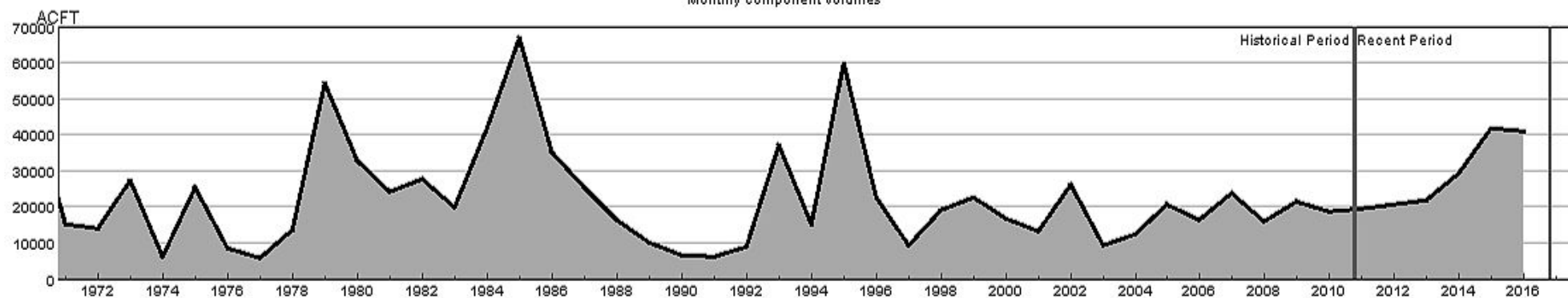
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14080104-NOV-PrevMoStreamflow-SWSI
 HUC:14080104-NOV-ForecastedRunoff-SWSI
 HUC:14080104-NOV-ReservoirStorage-SWSI
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HUC 13010001 (Rio Grande Headwaters) Surface Water Supply - NOV

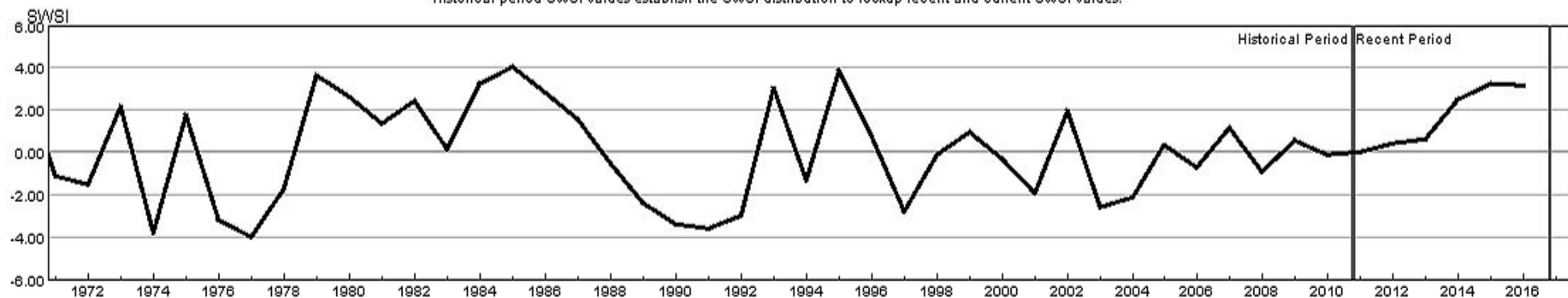
Monthly component volumes



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

HUC 13010001 (Rio Grande Headwaters) SWSI Values - NOV

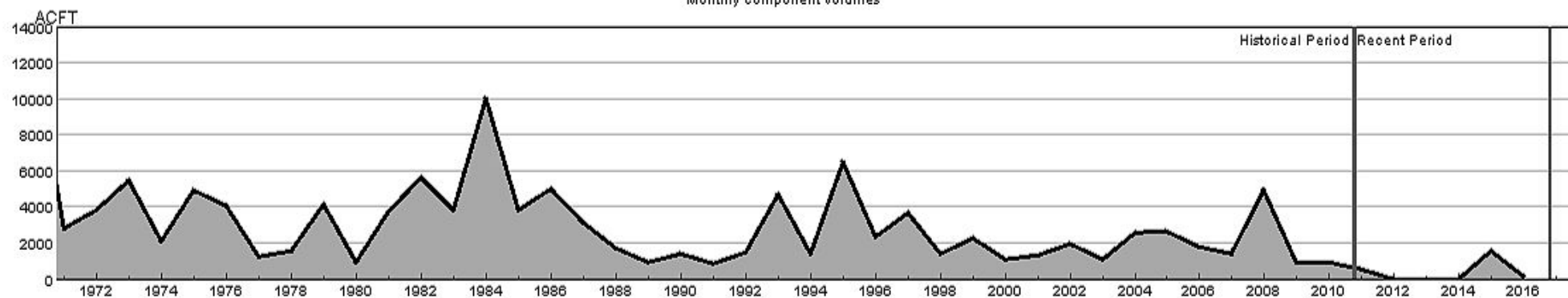
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

Monthly component volumes



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

HUC 14020004 (North Fork Gunnison) SWSI Values - NOV

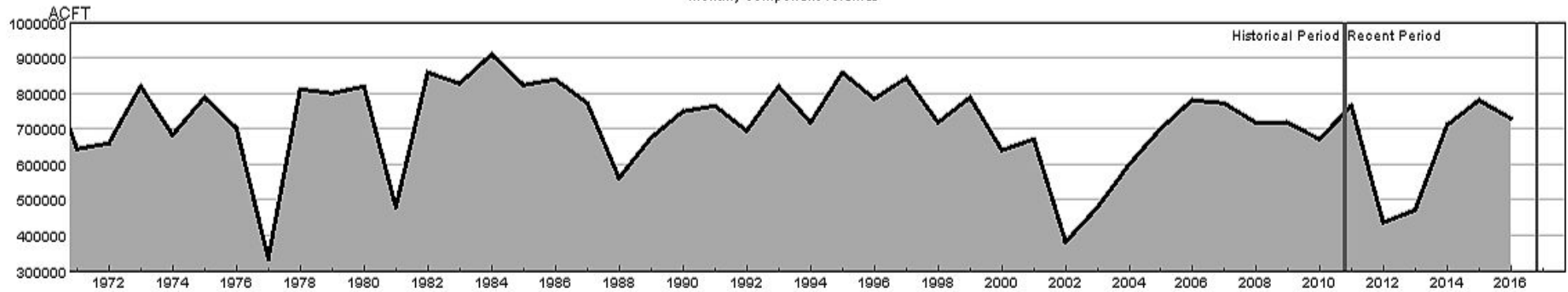
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14020004-NOV-PrevMoStreamflow-SWSI
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 HUC:14020004-NOV-ReservoirStorage-SWSI
 HUC:14020004-NOV-DataComposite-SWSI

HUC 14020002 (Upper Gunnison) Surface Water Supply - NOV

Monthly component volumes



HUC:14020002-NOV-DataComposite
 HUC:14020002-NOV-PrevMoStreamflow
 HUC:14020002-NOV-ForecastedRunoff
 HUC:14020002-NOV-ReservoirStorage

HUC 14020002 (Upper Gunnison) SWSI Values - NOV

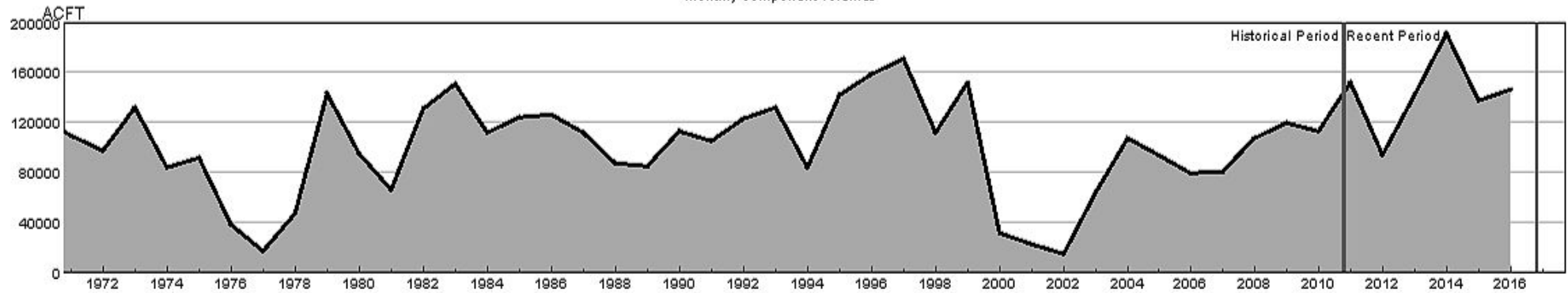
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14020002-NOV-PrevMoStreamflow-SWSI
 HUC:14020002-NOV-ForecastedRunoff-SWSI
 HUC:14020002-NOV-ReservoirStorage-SWSI
 HUC:14020002-NOV-DataComposite-SWSI

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

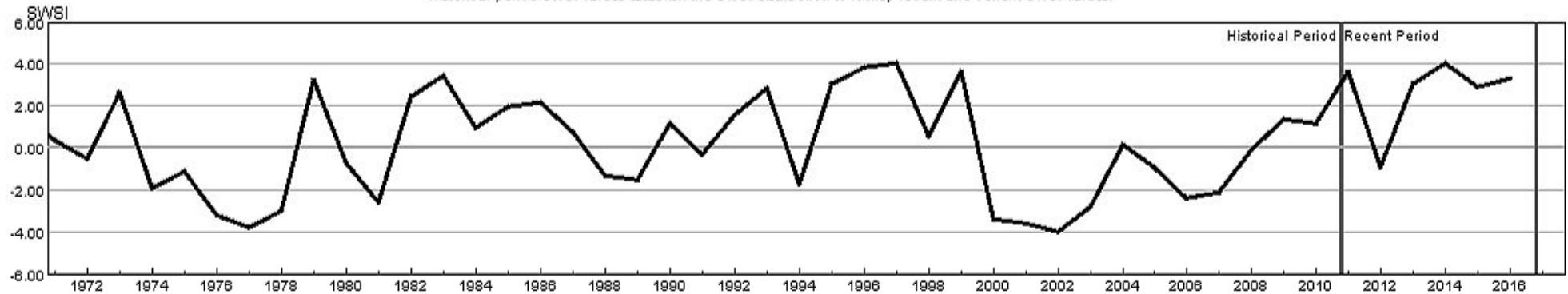
Monthly component volumes



HUC:10190007-NOV-DataComposite
 HUC:10190007-NOV-PrevMoStreamflow
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HUC 10190007 (Cache La Poudre) SWSI Values - NOV

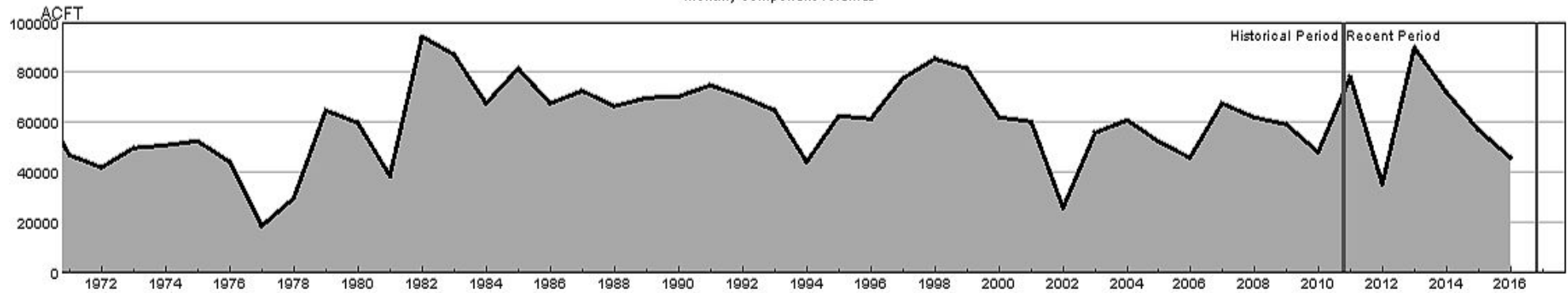
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

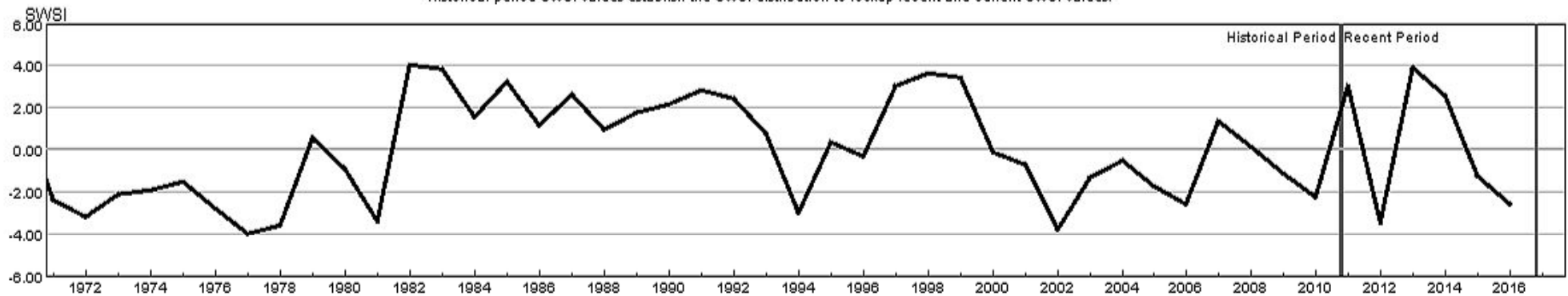
Monthly component volumes



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

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

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



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

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

Monthly component volumes



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

HUC 10190002 (Upper South Platte) SWSI Values - NOV

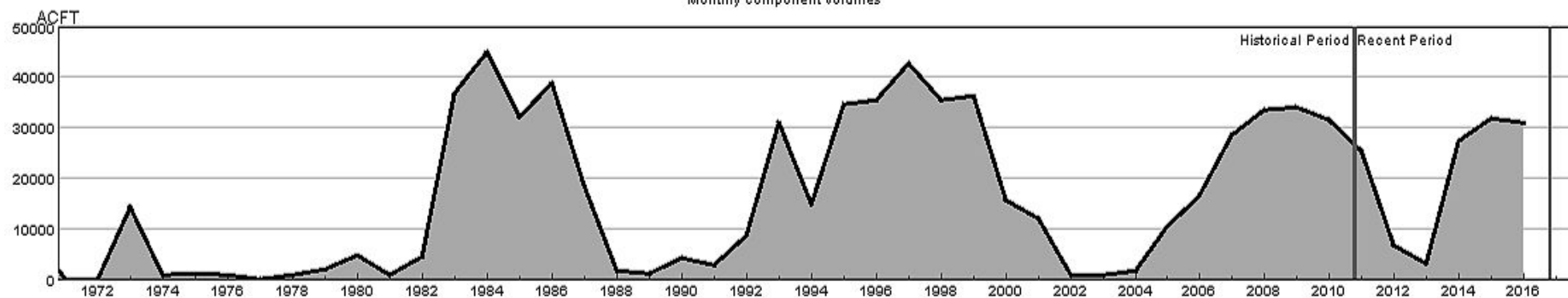
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

Monthly component volumes



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

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

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



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

HUC 14010002 (Blue) Surface Water Supply - NOV

Monthly component volumes



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

HUC 14010002 (Blue) SWSI Values - NOV

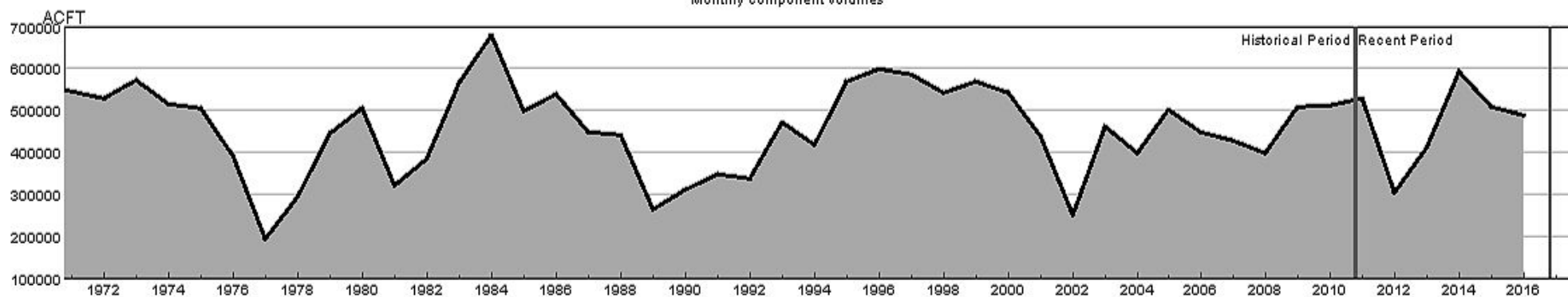
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 10190006 (Big Thompson) Surface Water Supply - NOV

Monthly component volumes



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

HUC 10190006 (Big Thompson) SWSI Values - NOV

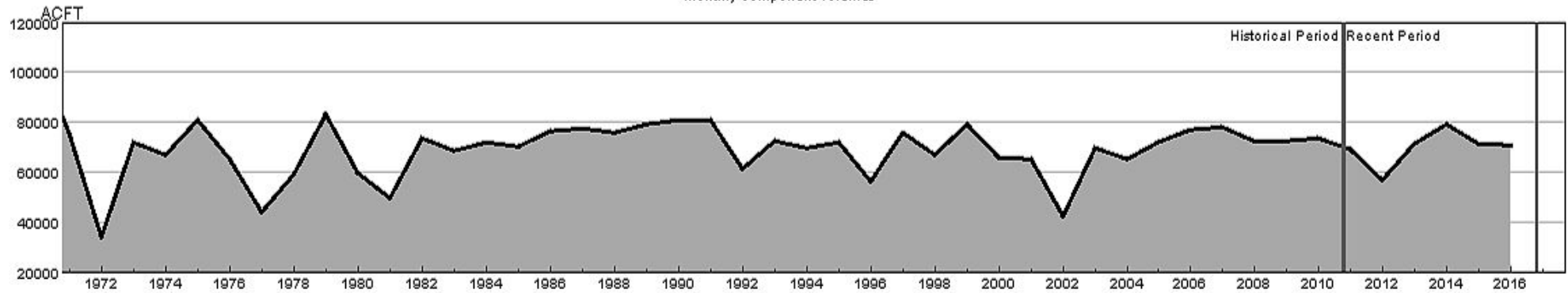
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:10190006-NOV-PrevMoStreamflow-SWSI
 HUC:10190006-NOV-ForecastedRunoff-SWSI
 HUC:10190006-NOV-ReservoirStorage-SWSI
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HUC 14020001 (East-Taylor) Surface Water Supply - NOV

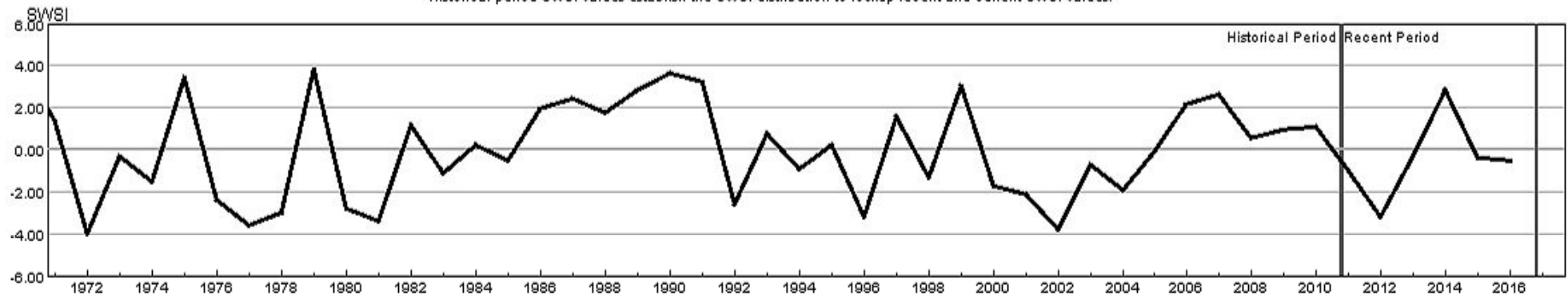
Monthly component volumes



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

HUC 14020001 (East-Taylor) SWSI Values - NOV

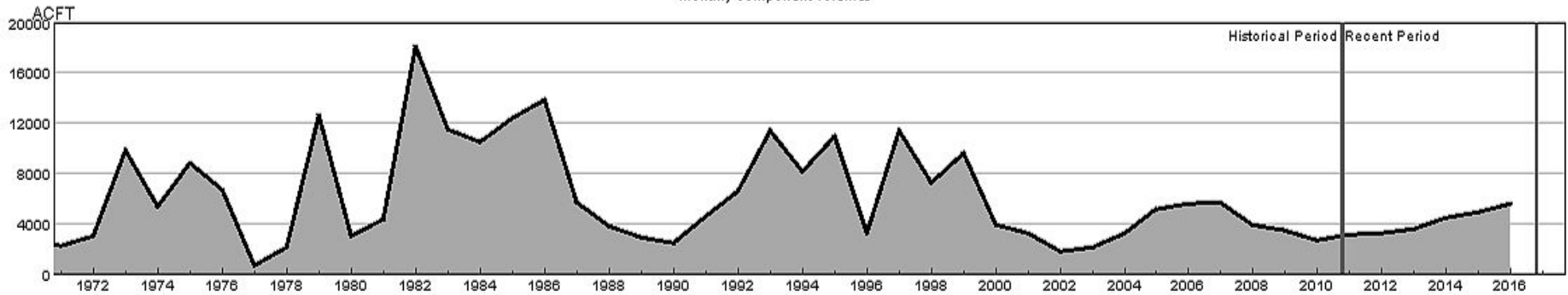
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

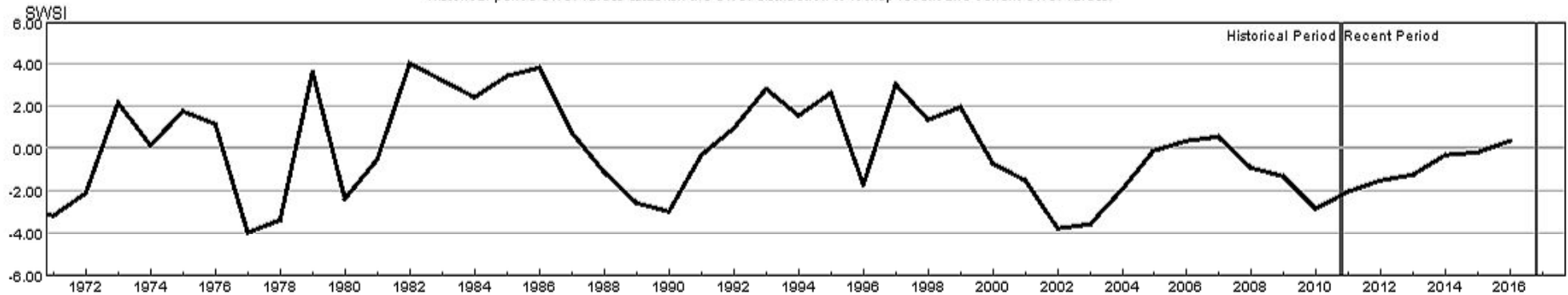
Monthly component volumes



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

HUC 13010002 (Alamosa-Trinchera) SWSI Values - NOV

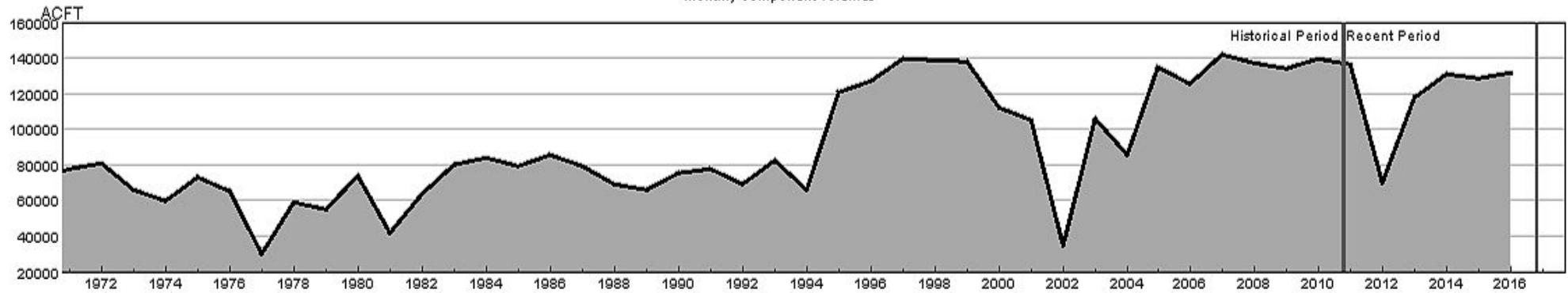
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14010001 (Colorado Headwaters) Surface Water Supply - NOV

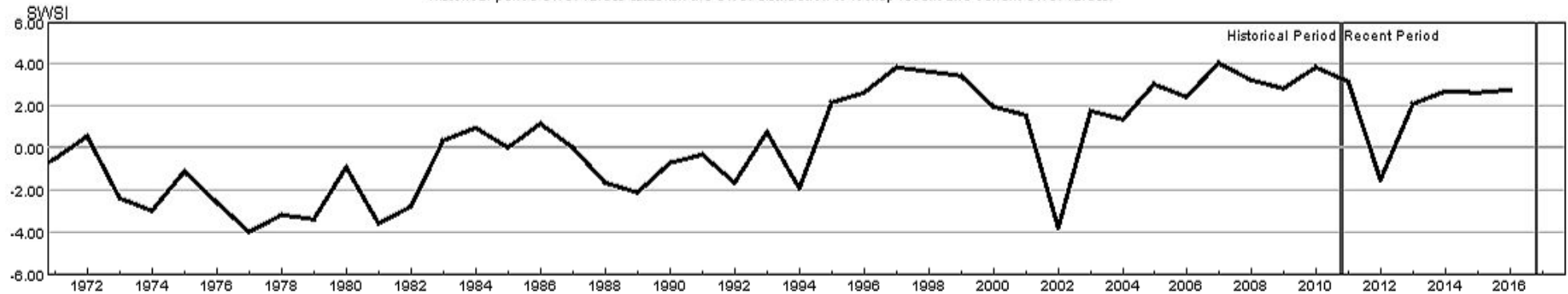
Monthly component volumes



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

HUC 14010001 (Colorado Headwaters) SWSI Values - NOV

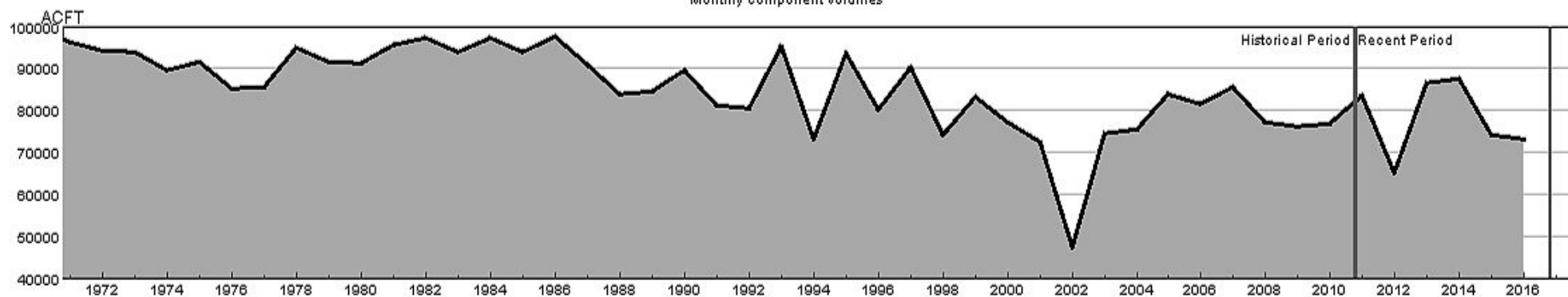
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14010004 (Roaring Fork) Surface Water Supply - NOV

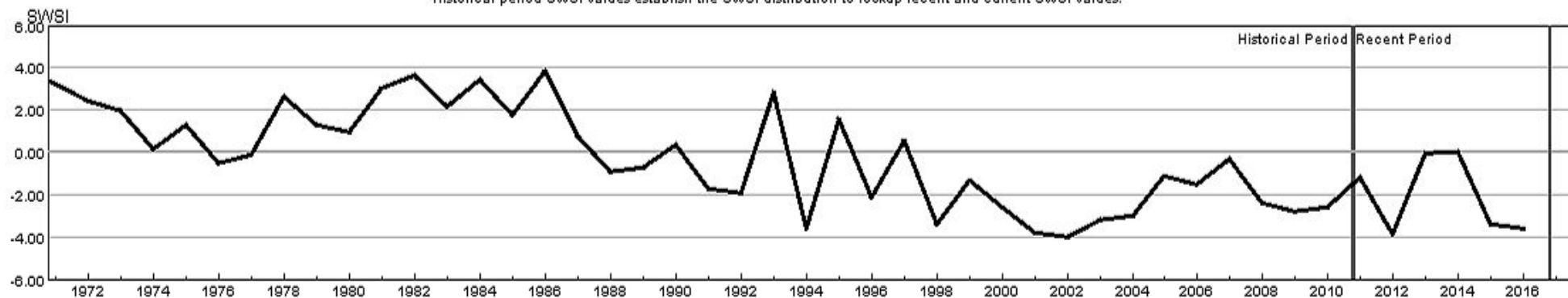
Monthly component volumes



HUC:14010004-NOV-DataComposite
 HUC:14010004-NOV-PrevMoStreamflow
 HUC:14010004-NOV-ForecastedRunoff
 HUC:14010004-NOV-ReservoirStorage

HUC 14010004 (Roaring Fork) SWSI Values - NOV

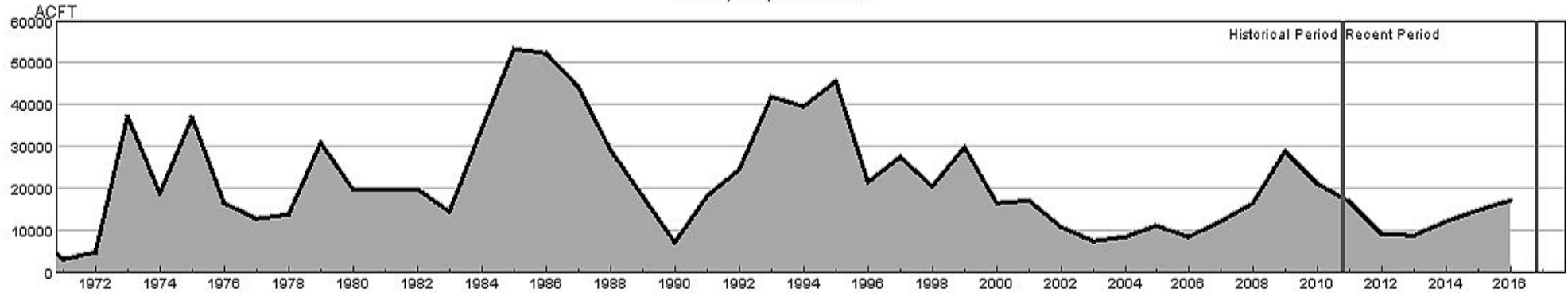
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14010004-NOV-PrevMoStreamflow-SWSI
 HUC:14010004-NOV-ForecastedRunoff-SWSI
 HUC:14010004-NOV-ReservoirStorage-SWSI
 HUC:14010004-NOV-DataComposite-SWSI

HUC 13010005 (Conejos) Surface Water Supply - NOV

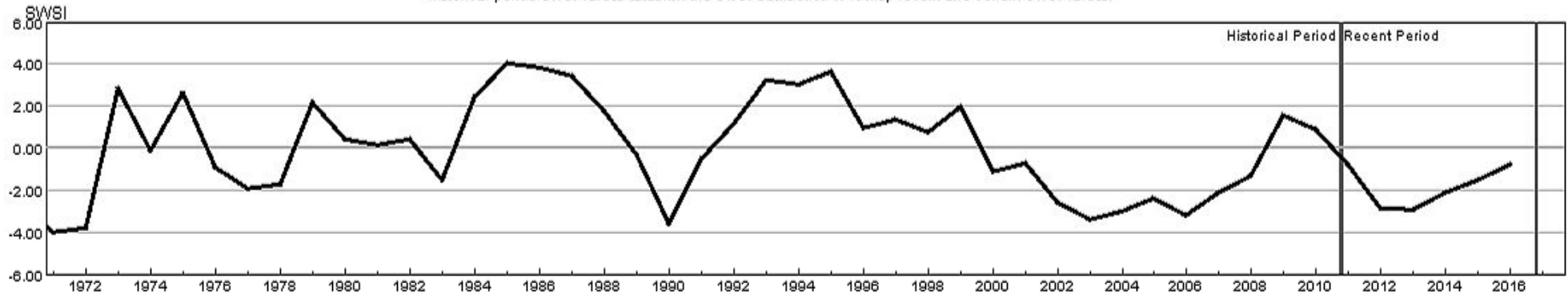
Monthly component volumes



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

HUC 13010005 (Conejos) SWSI Values - NOV

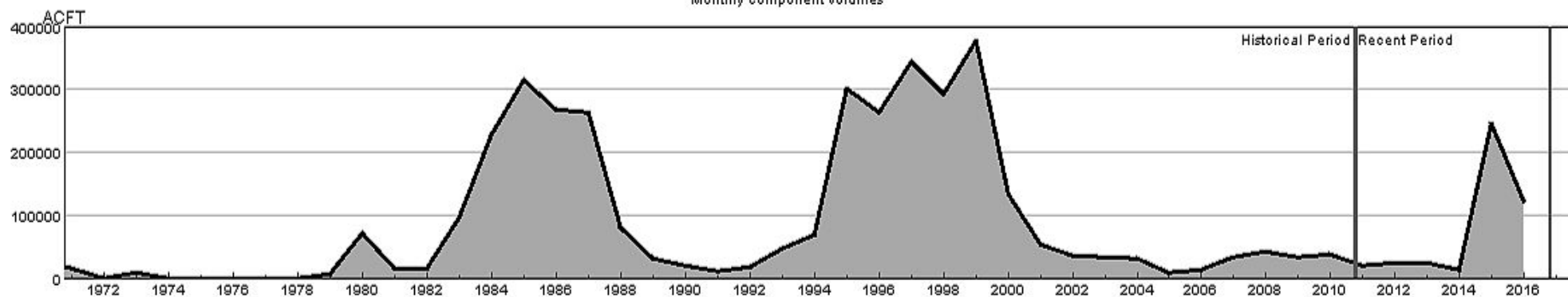
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

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

Monthly component volumes



- HUC:11020009-NOV-DataComposite
- HUC:11020009-NOV-PrevMoStreamflow
- HUC:11020009-NOV-ForecastedRunoff
- HUC:11020009-NOV-ReservoirStorage

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

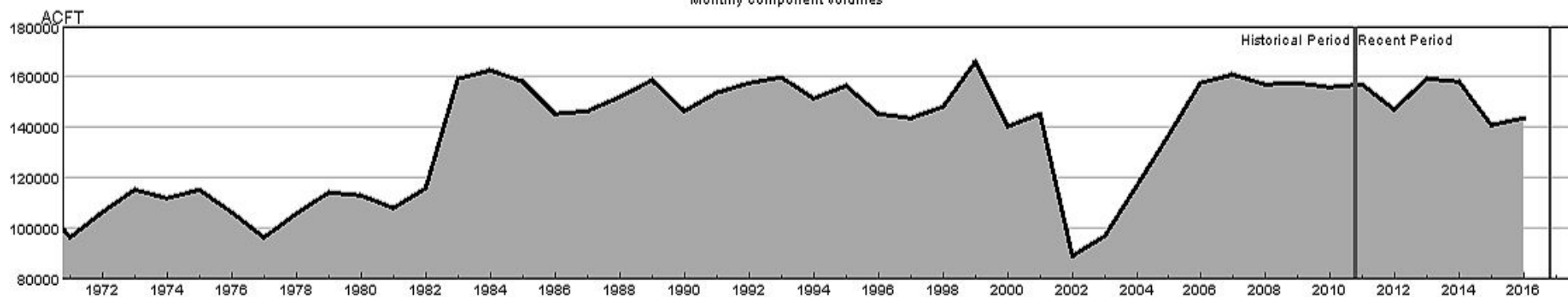
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



- HUC:11020009-NOV-PrevMoStreamflow-SWSI
- HUC:11020009-NOV-ForecastedRunoff-SWSI
- HUC:11020009-NOV-ReservoirStorage-SWSI
- HUC:11020009-NOV-DataComposite-SWSI

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

Monthly component volumes



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

HUC 10190001 (South Platte Headwater) SWSI Values - NOV

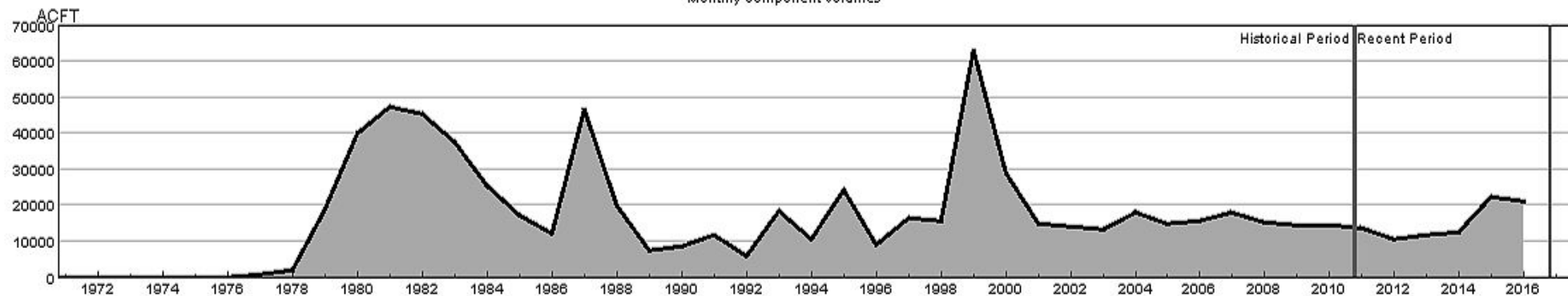
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 11020010 (Purgatoire) Surface Water Supply - NOV

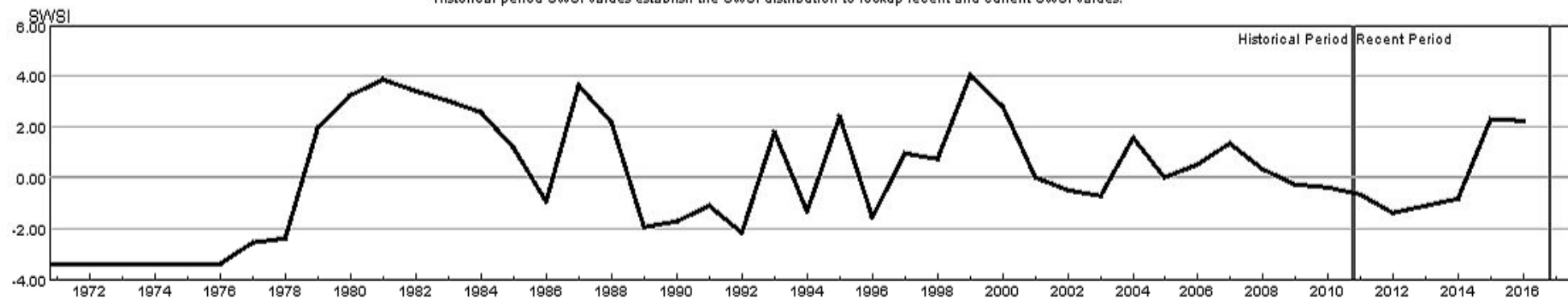
Monthly component volumes



HUC:11020010-NOV-DataComposite
 HUC:11020010-NOV-PrevMoStreamflow
 HUC:11020010-NOV-ForecastedRunoff
 HUC:11020010-NOV-ReservoirStorage

HUC 11020010 (Purgatoire) SWSI Values - NOV

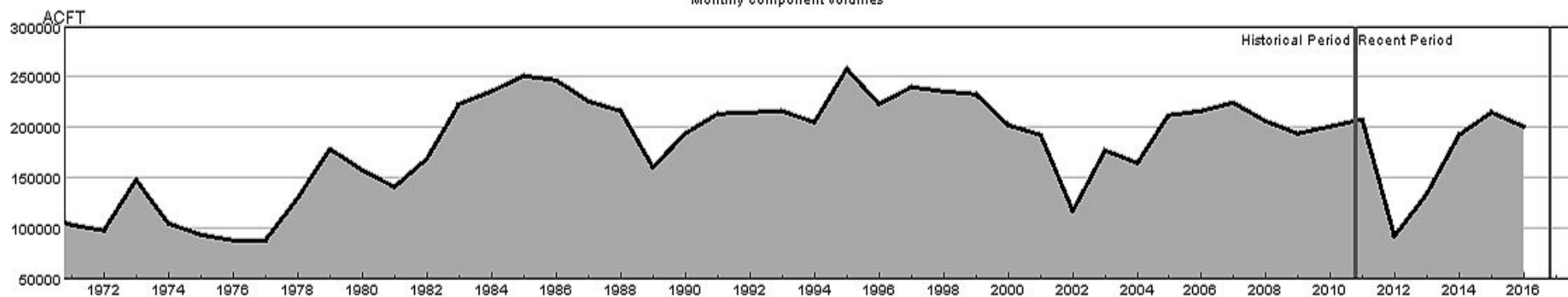
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:11020010-NOV-PrevMoStreamflow-SWSI
 HUC:11020010-NOV-ForecastedRunoff-SWSI
 HUC:11020010-NOV-ReservoirStorage-SWSI
 HUC:11020010-NOV-DataComposite-SWSI

HUC 11020001 (Arkansas Headwaters) Surface Water Supply - NOV

Monthly component volumes



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

HUC 11020001 (Arkansas Headwaters) SWSI Values - NOV

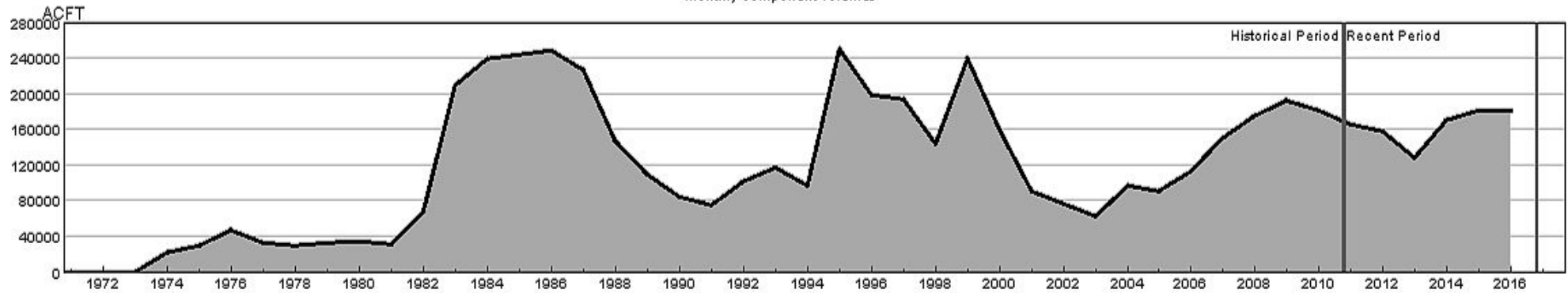
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 11020002 (Upper Arkansas) Surface Water Supply - NOV

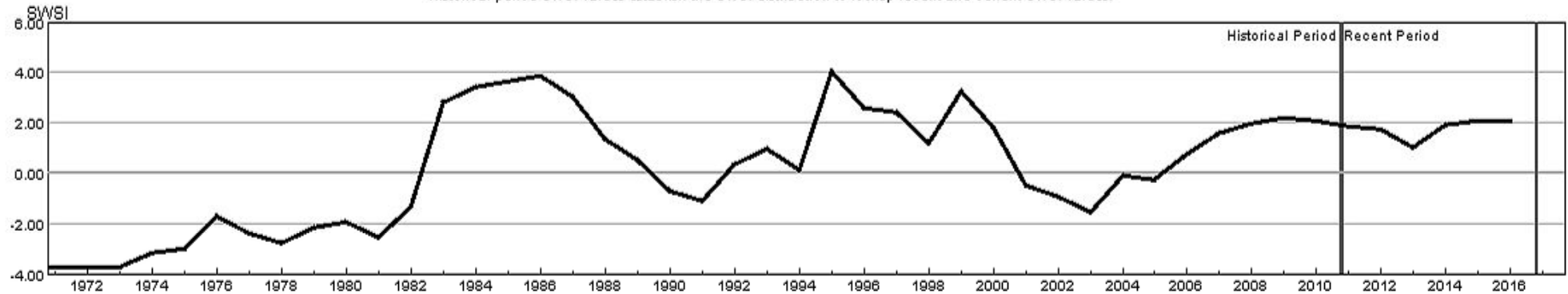
Monthly component volumes



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

HUC 11020002 (Upper Arkansas) SWSI Values - NOV

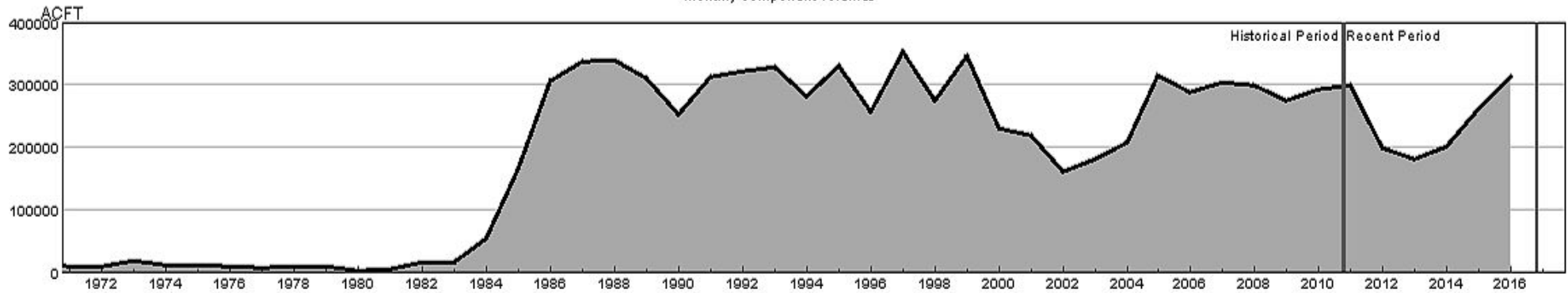
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14030002 (Upper Dolores) Surface Water Supply - NOV

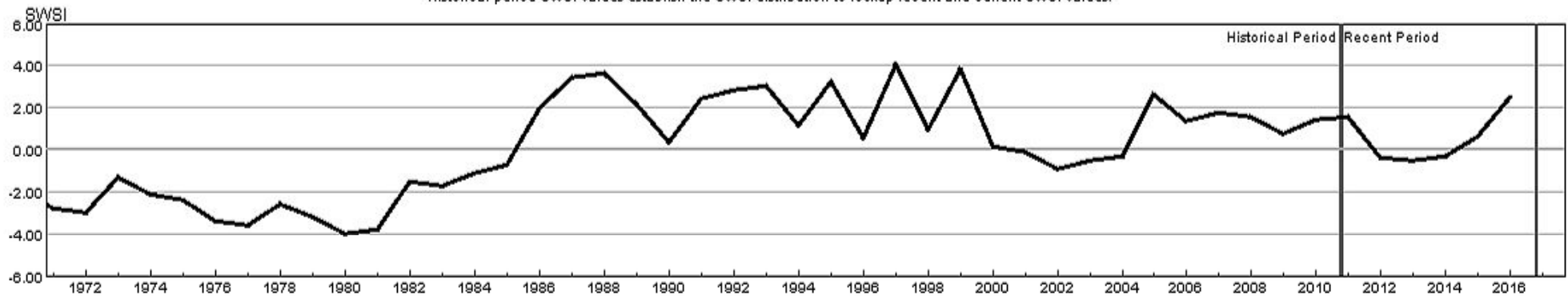
Monthly component volumes



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

HUC 14030002 (Upper Dolores) SWSI Values - NOV

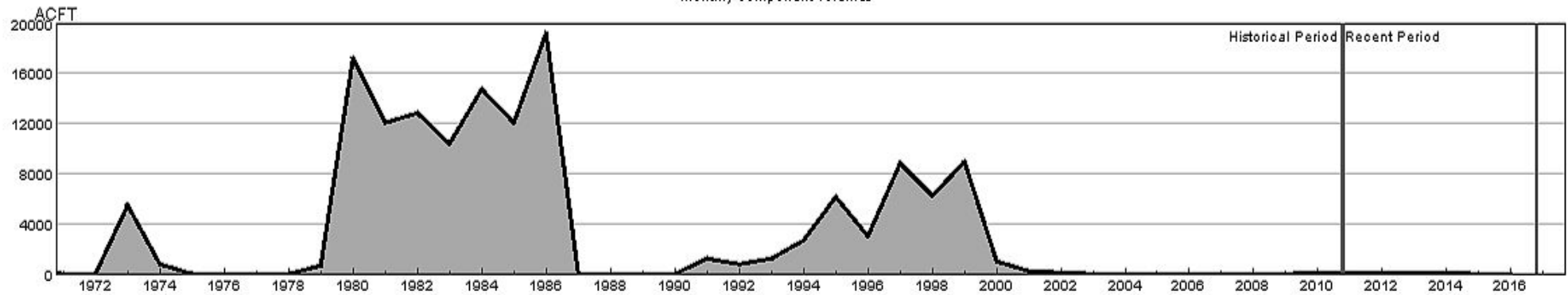
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 11020006 (Huerfano) Surface Water Supply - NOV

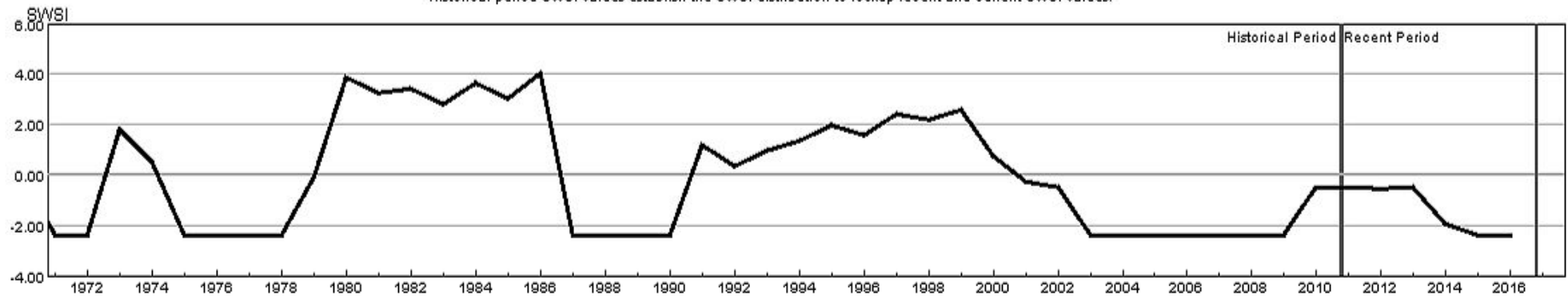
Monthly component volumes



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

HUC 11020006 (Huerfano) SWSI Values - NOV

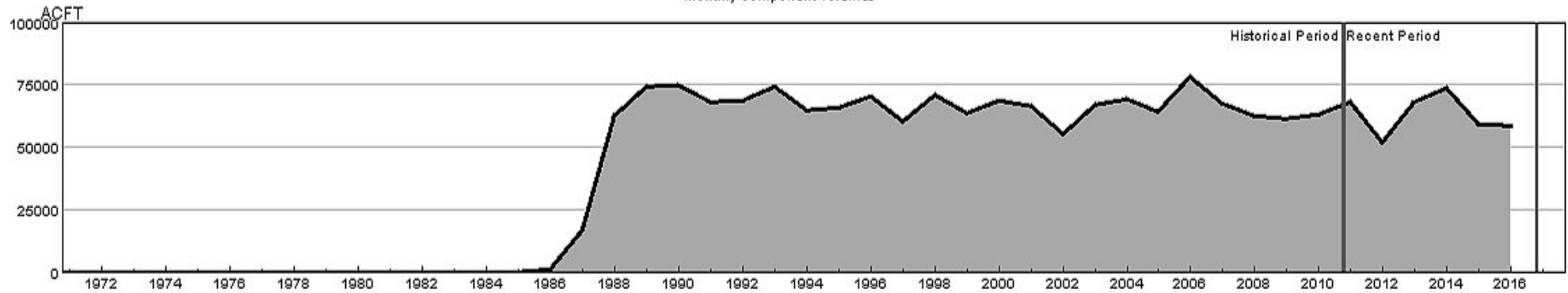
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14020006 (Uncompahgre) Surface Water Supply - NOV

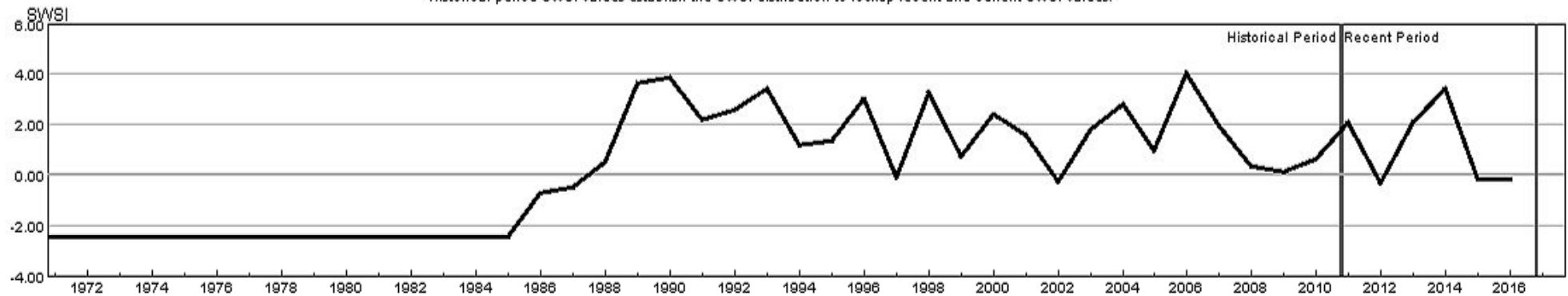
Monthly component volumes



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

HUC 14020006 (Uncompahgre) SWSI Values - NOV

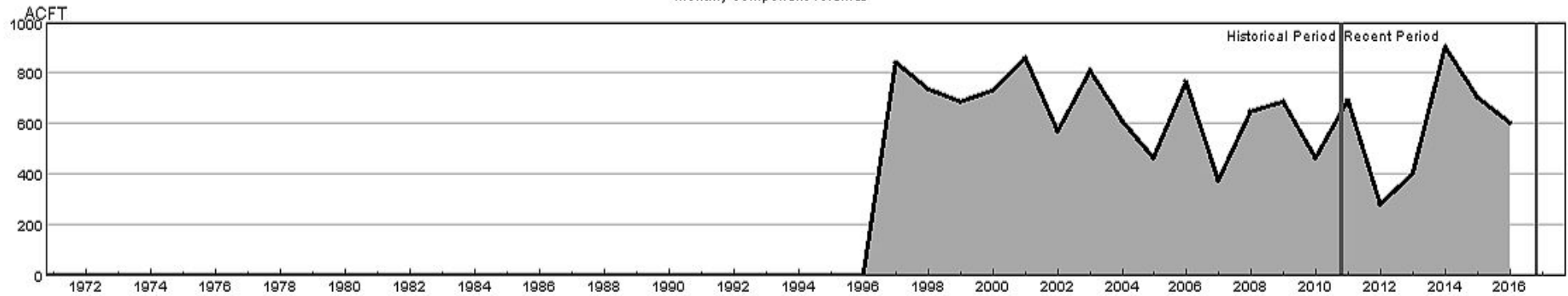
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14020003 (Tomichi) Surface Water Supply - NOV

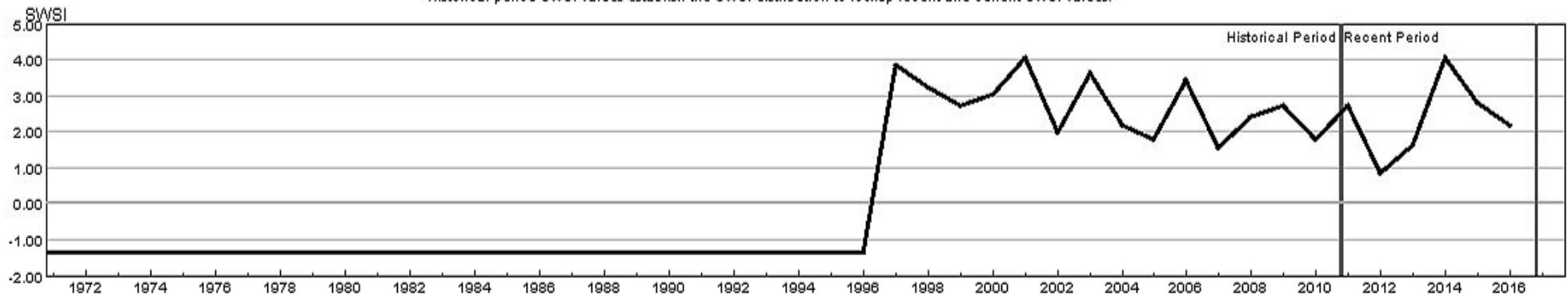
Monthly component volumes



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

HUC 14020003 (Tomichi) SWSI Values - NOV

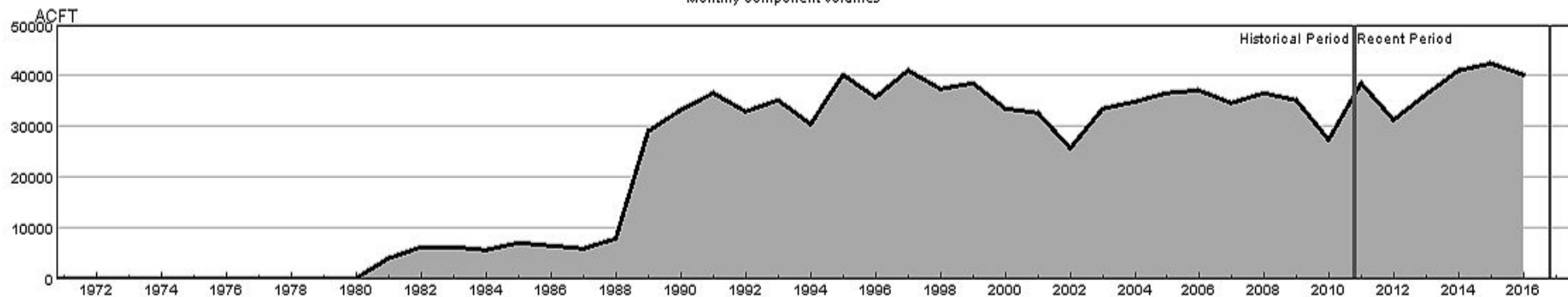
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

HUC 14050001 (Upper Yampa) Surface Water Supply - NOV

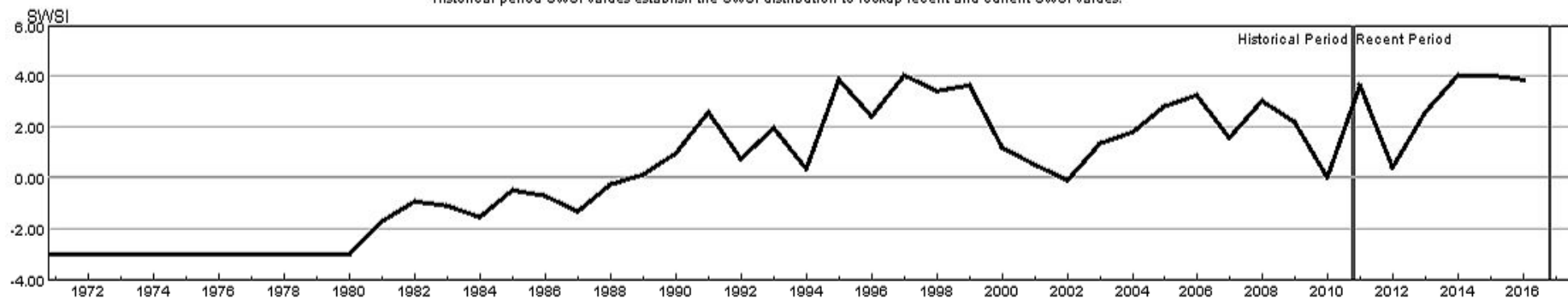
Monthly component volumes



HUC:14050001-NOV-DataComposite
 HUC:14050001-NOV-PrevMoStreamflow
 HUC:14050001-NOV-ForecastedRunoff
 HUC:14050001-NOV-ReservoirStorage

HUC 14050001 (Upper Yampa) SWSI Values - NOV

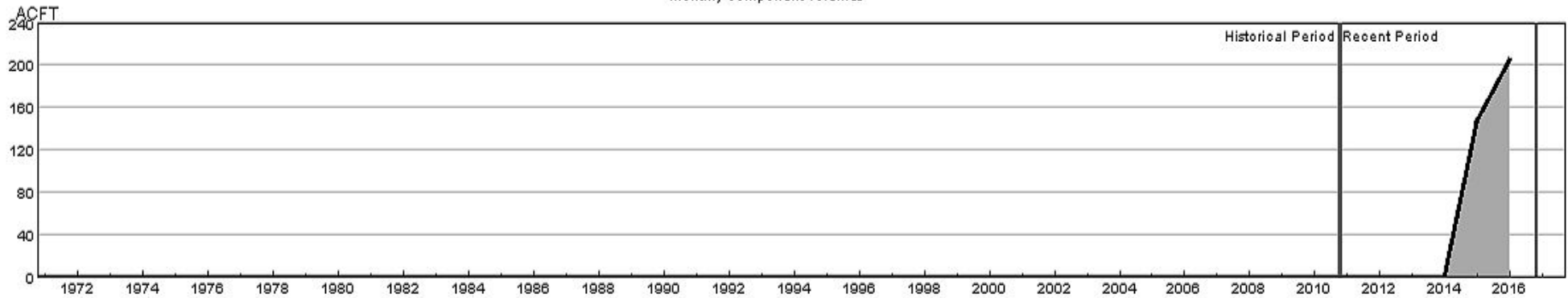
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14050001-NOV-PrevMoStreamflow-SWSI
 HUC:14050001-NOV-ForecastedRunoff-SWSI
 HUC:14050001-NOV-ReservoirStorage-SWSI
 HUC:14050001-NOV-DataComposite-SWSI

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

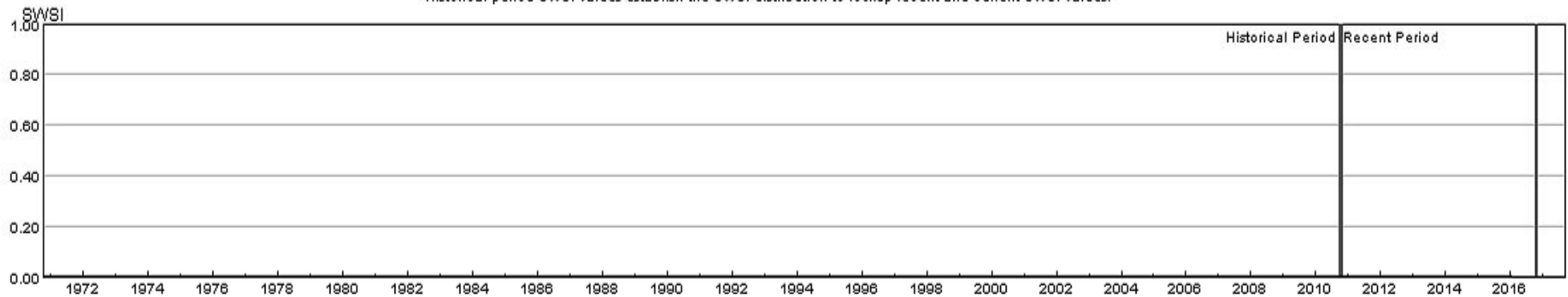
Monthly component volumes



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

HUC 14080105 (Middle San Juan) SWSI Values - NOV

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



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