COLORADO
WATER SUPPLY CONDITIONS UPDATE

FROM THE OFFICE OF THE STATE ENGINEER: COLORADO DIVISION OF WATER RESOURCES
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July 1, 2017

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 revised SWSI analysis based on the components shown below, which vary depending on the time of year. The revised 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, all within the HUC. 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 automated DNR SWSI was published. The results of each month's analysis are summarized within this report and additional information, maps & data are available at: http://water.state.co.us/DWRDocs/Reports/Pages/SWSIReport.aspx. This report also contains updates about current regional conditions and water matters prepared by each DWR Division Office.

The SWSI calculation for the summer season (July 1 to September 1) is based on the previous month's natural streamflow (the estimate of flow without the impacts of diversions and imports) combined with reservoir storage at the end of last month, in this case June 30. The following SWSI values were computed for each of the seven major basins for July 1, 2017. Water supply conditions are near to above normal for July 1, 2017 statewide.

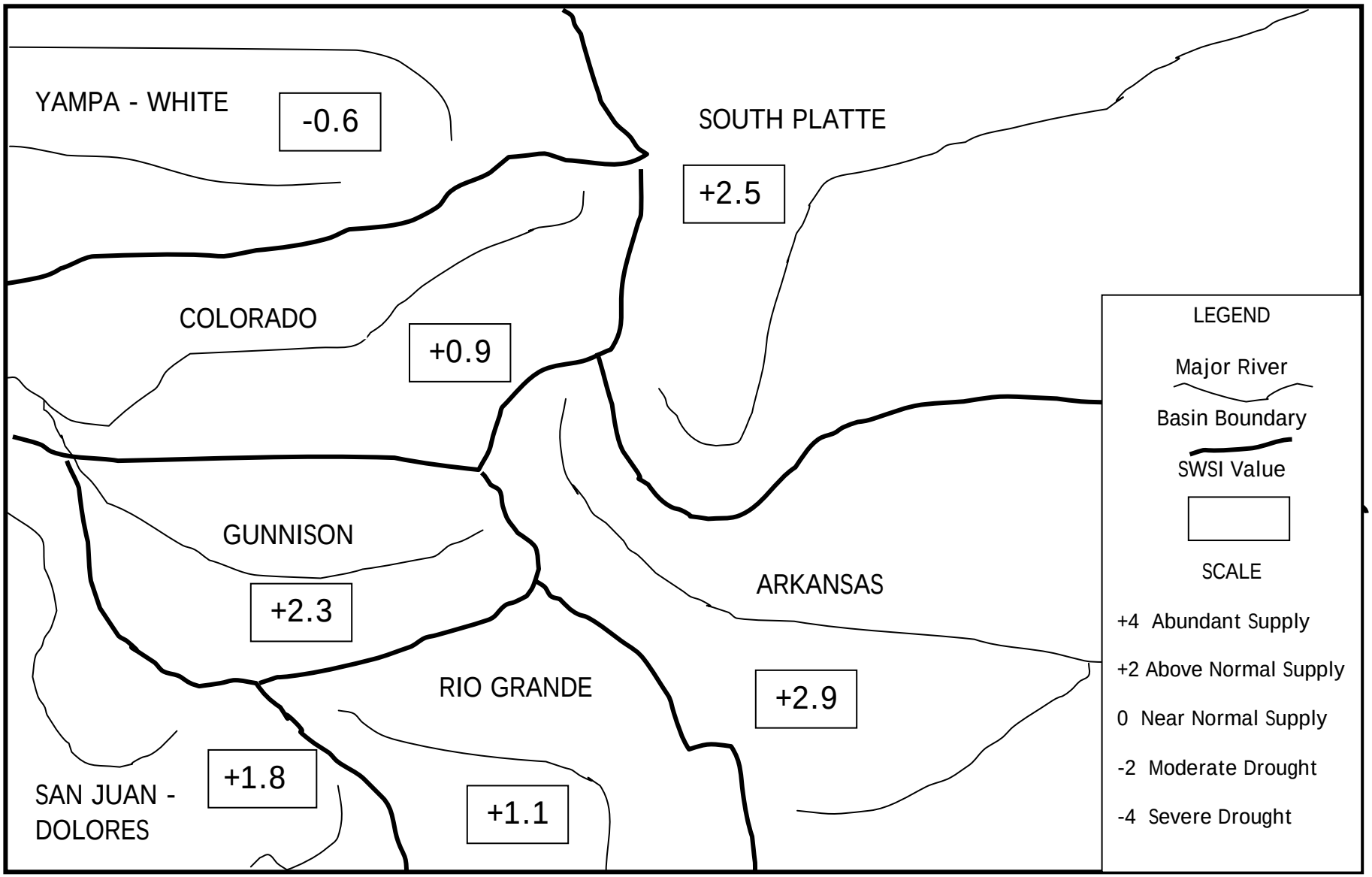
Basin	July 1 SWSI	Change from Previous Month*	Change from Previous Year
Arkansas	2.9	0.9	0.5
Colorado	0.9	-0.6	-0.9
Gunnison	2.3	0.9	0.9
Rio Grande	1.1	0.5	0.2
San Juan-Dolores	1.8	0.6	0.3
South Platte	2.5	0.2	-0.1
Yampa-White	-0.6	-0.1	-1.0

*Note that last month's SWSI was calculated using forecasted runoff and reservoir storage and this month's SWSI is based on previous month's streamflow and reservoir storage. Comparison between this month and last month should be made with caution.

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

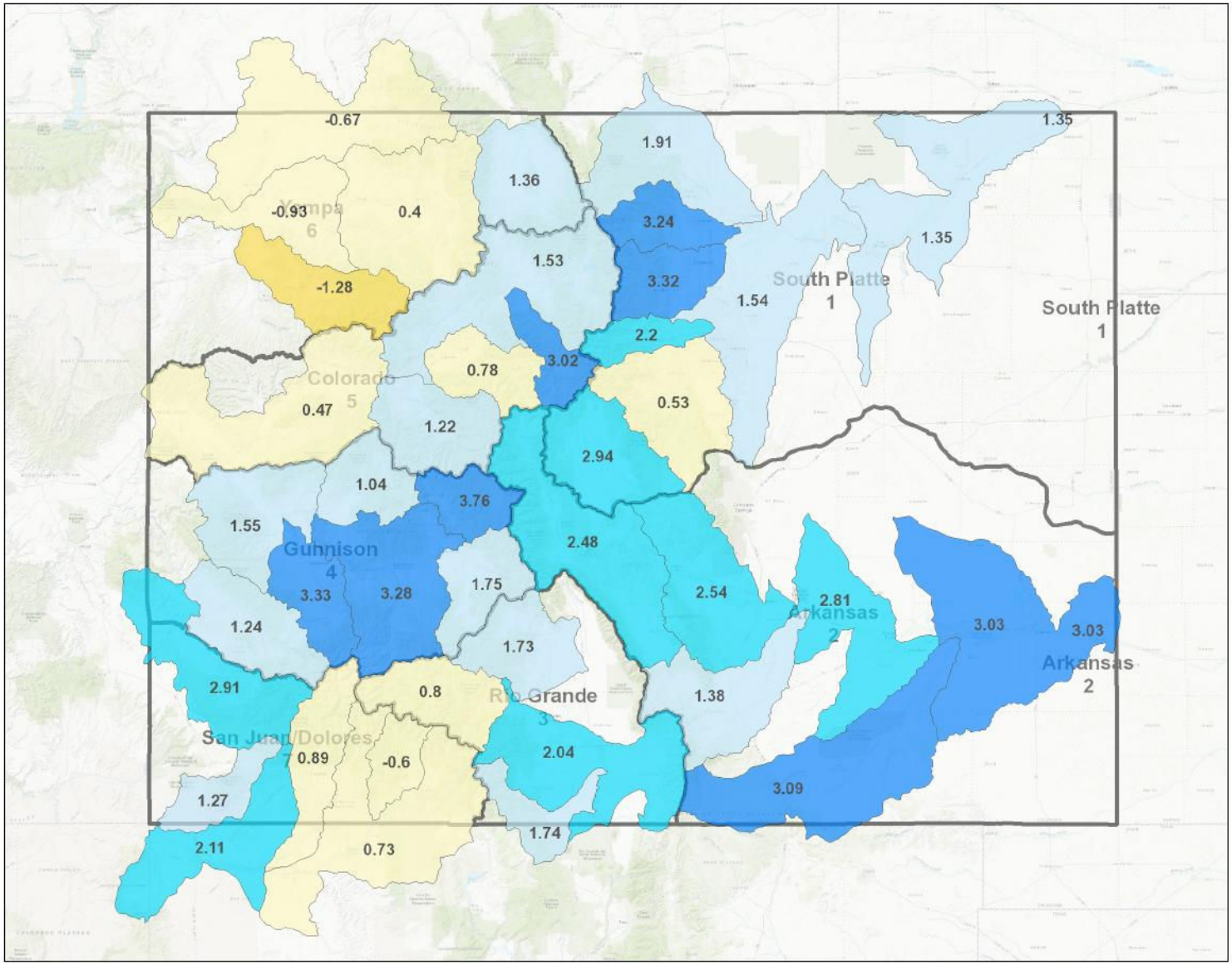


July 1, 2017

SURFACE WATER SUPPLY INDEX FOR COLORADO BY HUC

CDSS
Colorado's Decision Support Systems

SWSI July 1, 2017



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)
- Water Division

Location

Notes

113.64 0 56.82 113.64 Miles

1: 3,600,000

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Date Prepared: 7/19/2017 7:47:36 AM

July 1, 2017 SWSI Values by HUC and Non Exceedance Probabilities (NEP)

Basin	HUC ID	HUC Name	SWSI	Reservoir Storage NEP	Prev. Month Streamflow NEP	Total Vol (AF)
Arkansas	11020001	Arkansas Headwaters	2.5	57	84	386,835
		Upper Arkansas	2.5	79	79	455,451
		Upper Arkansas-Lake Meredith	2.8	99	80	282,007
		Huerfano River	1.4	14	88	14,656
		Upper Arkansas-John Martin Reservoir	3.0	85	80	564,822
		Purgatoire River	3.1	80	91	58,615
Colorado	14010001	Colorado Headwaters	1.5	86	59	811,152
		Blue River	3.0	77	83	297,033
		Eagle River	0.8	NA	59	162,871
		Roaring Fork	1.2	63	64	447,925
		Colorado Headwaters-Plateau	0.5	42	56	1,085,997
Gunnison	14020001	East-Taylor	3.8	99	92	309,738
		Upper Gunnison	3.3	74	92	1,258,730
		Tomichi Creek	1.8	62	71	38,587
		North Fork Gunnison	1.0	11	63	113,861
		Lower Gunnison	1.6	NA	69	661,011
		Uncompahgre River	3.3	57	76	141,544
		San Miguel	1.2	NA	65	57,295
Rio Grande	13010001	Rio Grande Headwaters	0.8	68	54	226,666
		Alamosa-Trinchera	2.0	84	71	82,778
		Saguache Creek	1.7	NA	71	11,257
		Conejos River	1.7	66	66	134,671
San Juan-Dolores	14030002	Upper Dolores	2.9	86	61	492,344
		Upper San Juan	0.7	95	58	333,121
		Piedra River	-0.6	NA	43	49,115
		Animas River	0.9	58	61	246,962
		Middle San Juan	2.1	50	64	11,245
		Mancos River	1.3	66	65	20,668
South Platte	10190001	South Platte Headwaters	2.9	74	77	191,996
		Upper South Platte	0.5	87	45	390,101
		Middle South Platte-Cherry Creek	1.5	78	68	508,945
		Clear Creek	2.2	NA	77	58,795
		St. Vrain River	3.3	99	88	181,648
		Big Thompson River	3.2	85	80	700,600
		Cache La Poudre	1.9	98	65	346,200
		Middle South Platte-Sterling	1.4	48	68	621,345
Yampa-White	10180001	North Platte Headwaters	1.4	NA	66	102,488
		Upper Yampa	0.4	99	46	288,908
		Lower Yampa	-0.9	NA	39	289,297
		Little Snake	-0.7	NA	42	89,424
		Upper White	-1.3	NA	35	86,259

NEP is non exceedance percentage for total reservoir storage in HUC and last month's native streamflow volume in HUC (if there is more than one of each type of component, their volumes are added together). Some HUCs do not have any reservoirs considered in the SWSI. Total Vol is the volume of reservoir storage plus last month's streamflow volume in the HUC combined. NEP is calculated compared to the volume of actual natural flow and active storage historically occurring this month during the period 1970-2010. The following table lists each component considered in each HUC.

SWSI Color Scale:	-4.0 (Severe Drought)	0 (Normal)	4.0 (Abundant Supply)

July 1, 2017 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	160,635	84
		CLEAR CREEK RESERVOIR	9,200	49
		TURQUOISE LAKE	113,700	47
		TWIN LAKES RESERVOIR	60,800	41
		HOMESTAKE RESERVOIR	42,500	81
11020002	Upper Arkansas	PUEBLO RESERVOIR INFLOW	214,451	79
		PUEBLO RESERVOIR	241,000	79
11020005	Upper Arkansas-Lake Meredith	PUEBLO RESERVOIR INFLOW	214,451	79
		HUERFANO RIVER NEAR REDWING	6,134	77
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	8,522	94
		MEREDITH RESERVOIR	43,300	99
		LAKE HENRY	9,600	99
11020006	Huerfano River	HUERFANO RIVER NEAR REDWING	6,134	77
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	8,522	94
		CUCHARAS RESERVOIR*	0	14
11020009	Upper Arkansas-John Martin Reservoir	PUEBLO RESERVOIR INFLOW	214,451	79
		HUERFANO RIVER NEAR REDWING	6,134	77
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	8,522	94
		PURGATOIRE RIVER AT TRINIDAD	21,015	91
		ADOBE CREEK RESERVOIR	50,000	66
		JOHN MARTIN RESERVOIR	264,700	85
11020010	Purgatoire River	PURGATOIRE RIVER AT TRINIDAD	21,015	91
		TRINIDAD LAKE	37,600	80
14010001	Colorado Headwaters	COLORADO RIVER NEAR DOTSERO	649,052	59
		WILLIAMS FORK RESERVOIR	96,000	76
		WOLFORD MOUNTAIN RESERVOIR	66,100	90
14010002	Blue River	BLUE RIVER INFLOW TO GREEN MOUNTAIN RES	153,833	83
		GREEN MOUNTAIN RESERVOIR	143,200	77
14010003	Eagle River	EAGLE RIVER BELOW GYPSUM	162,871	59
14010004	Roaring Fork	ROARING FORK AT GLENWOOD SPRINGS	348,325	64
		RUEDI RESERVOIR	99,600	63
14010005	Colorado Headwaters-Plateau	COLORADO RIVER NEAR CAMEO	1,056,197	56
		VEGA RESERVOIR	29,800	42
14020001	East-Taylor	TAYLOR R INF TO TAYLOR PARK RESERVOIR	76,832	97
		EAST RIVER AT ALMONT	116,807	88
		TAYLOR PARK RESERVOIR	116,100	99

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
14020002	Upper Gunnison	GUNNISON RIVER NEAR GUNNISON, CO	246,106	91
		LAKE FORK AT GATEVIEW, CO	74,880	89
		BLUE MESA RESERVOIR	793,044	74
		MORROW POINT RESERVOIR	110,120	4
		FRUITLAND RESERVOIR	7,900	67
		CRAWFORD RESERVOIR	13,700	52
		SILVER JACK RESERVOIR	12,980	99
14020003	Tomichi Creek	TOMICHI CREEK AT GUNNISON, CO	38,057	71
		VOUGA RESERVOIR NEAR DOYLEVILLE	530	62
14020004	North Fork Gunnison	NORTH FORK GUNNISON R NR SOMERSET	98,361	63
		PAONIA RESERVOIR	15,500	11
14020005	Lower Gunnison	GUNNISON RIVER NR GRAND JUNCTION	661,011	69
14020006	Uncompahgre River	UNCOMPAHGRE RIVER AT COLONA	64,144	76
		RIDGEWAY RESERVOIR	77,400	57
14030003	San Miguel	SAN MIGUEL RIVER NEAR PLACERVILLE	57,295	65
13010001	Rio Grande Headwaters	RIO GRANDE NEAR DEL NORTE	175,066	54
		RIO GRANDE RESERVOIR	22,200	61
		SANTA MARIA RESERVOIR	13,100	72
		CONTINENTAL RESERVOIR	16,300	99
13010002	Alamosa-Trinchera	ALAMOSA CREEK ABOVE TERRACE RESERVOIR	27,072	59
		TRINCHERA CK	8,423	87
		SANGRE DE CRISTO	4,129	69
		UTE CREEK	5,445	74
		CULEBRA CREEK AT SAN LUIS	14,060	79
		TERRACE RESERVOIR	9,800	59
		MOUNTAIN HOME	13,849	99
13010004	Saguache Creek	SAGUACHE CREEK NEAR SAGUACHE, CO	11,257	71
13010005	Conejos River	CONEJOS RIVER NEAR MOGOTE	95,301	66
		PLATORO RESERVOIR	39,370	66
14030002	Upper Dolores	DOLORES RIVER BELOW MCPHEE RESERVOIR	91,970	61
		GROUNDHOG RESERVOIR	25,900	99
		MCPHEE RESERVOIR	374,474	76
14080101	Upper San Juan	SAN JUAN RIVER NEAR CARRACAS	136,562	57
		LOS PINOS RIVER NEAR BAYFIELD	72,359	57
		VALLECITO RESERVOIR	124,200	95
14080102	Piedra River	PIEDRA RIVER NEAR ARBOLES	49,115	43
14080104	Animas River	ANIMAS RIVER AT DURANGO	185,851	62
		FLORIDA RIVER INFLOW TO LEMON RESERVOIR	22,510	59
		LEMON RESERVOIR	38,600	58
14080105	Middle San Juan	LA PLATA RIVER AT HESPERUS	9,126	64
		LONG HOLLOW RESERVOIR	2,119	50
14080107	Mancos River	MANCOS RIVER NEAR MANCOS	10,768	65
		JACKSON GULCH RESERVOIR	9,900	66

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
10190001	South Platte Headwaters	ELEVENMILE CANYON RESV INFLOW	25,196	77
		ANTERO RESERVOIR	19,900	69
		ELEVENMILE CANYON RESERVOIR	99,700	35
		SPINNEY MOUNTAIN RESERVOIR	47,200	72
10190002	Upper South Platte	SOUTH PLATTE RIVER AT SOUTH PLATTE	56,000	48
		BEAR CREEK ABV EVERGREEN	3,701	35
		CHEESMAN LAKE	79,200	61
		DILLON RESERVOIR	251,200	84
10190003	Middle South Platte-Cherry Creek	SOUTH PLATTE RIVER AT SOUTH PLATTE	56,000	48
		BEAR CREEK ABV EVERGREEN	3,701	35
		CLEAR CREEK AT GOLDEN	58,795	77
		SAINT VRAIN CREEK AT LYONS	63,000	95
		BOULDER CREEK NEAR ORODELL	25,200	53
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	18,248	56
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	56,500	80
		CACHE LA POUDRE R AT CANYON MOUTH	122,800	65
		BARR LAKE	29,100	68
		MILTON RESERVOIR	21,600	95
		STANDLEY RESERVOIR	41,200	41
		HORSECREEK RESERVOIR	12,800	50
10190004	Clear Creek	CLEAR CREEK AT GOLDEN	58,795	77
10190005	St. Vrain River	SAINT VRAIN CREEK AT LYONS	63,000	95
		BOULDER CREEK NEAR ORODELL	25,200	53
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	18,248	56
		GROSS RESERVOIR	29,500	71
		MARSHALL RESERVOIR	9,500	60
		BUTTONROCK (RALPH PRICE) RESERVOIR	16,200	90
		TERRY RESERVOIR	8,100	99
		UNION RESERVOIR	11,900	21
10190006	Big Thompson River	BIG THOMPSON R AT MOUTH, NR DRAKE, CO	56,500	80
		BOYD LAKE	43,300	50
		CARTER LAKE	106,500	79
		LAKE LOVELAND RESERVOIR	10,300	93
		LONE TREE RESERVOIR	8,600	99
		MARIANO RESERVOIR	5,100	72
		LAKE GRANBY	462,200	85
		WILLOW CREEK RESERVOIR	8,100	61

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month
10190007	Cache La Poudre	CACHE LA POUDRE R AT CANYON MOUTH	122,800	65
		BLACK HOLLOW RESERVOIR	4,800	97
		CACHE LA POUDRE	10,300	94
		CHAMBERS LAKE	8,400	67
		COBB LAKE	22,200	96
		FOSSIL CREEK RESERVOIR	10,600	91
		HALLIGAN RESERVOIR	6,400	70
		HORSETOOTH RESERVOIR	146,200	95
		WINDSOR RESERVOIR	14,500	79
10190012	Middle South Platte-Sterling	SOUTH PLATTE RIVER AT SOUTH PLATTE	56,000	48
		BEAR CREEK ABV EVERGREEN	3,701	35
		CLEAR CREEK AT GOLDEN	58,795	77
		SAINT VRAIN CREEK AT LYONS	63,000	95
		BOULDER CREEK NEAR ORODELL	25,200	53
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	18,248	56
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	56,500	80
		CACHE LA POUDRE R AT CANYON MOUTH	122,800	65
		EMPIRE RESERVOIR	35,100	97
		JACKSON LAKE RESERVOIR	24,900	25
		JULESBURG RESERVOIR	20,500	72
		POINT OF ROCKS RESERVOIR	61,600	44
		PREWITT RESERVOIR	22,300	36
		RIVERSIDE RESERVOIR	52,700	67
10180001	North Platte Headwaters	NORTH PLATTE R NR NORTHGATE	102,488	66
14050001	Upper Yampa	YAMPA RIVER AT STEAMBOAT SPRINGS	88,131	35
		ELK RIVER NEAR MILNER, CO	150,645	60
		ELKHEAD CREEK ABOVE LONG GULCH	7,332	40
		STAGECOACH RESERVOIR NR OAK CREEK	35,100	99
		YAMCOLO RESERVOIR	7,700	72
14050002	Lower Yampa	YAMPA RIVER NEAR MAYBELL	289,297	39
14050003	Little Snake	LITTLE SNAKE RIVER NEAR LILY	89,424	42
14050005	Upper White	WHITE RIVER NEAR MEEKER	86,259	35

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

*Empty, filling restriction

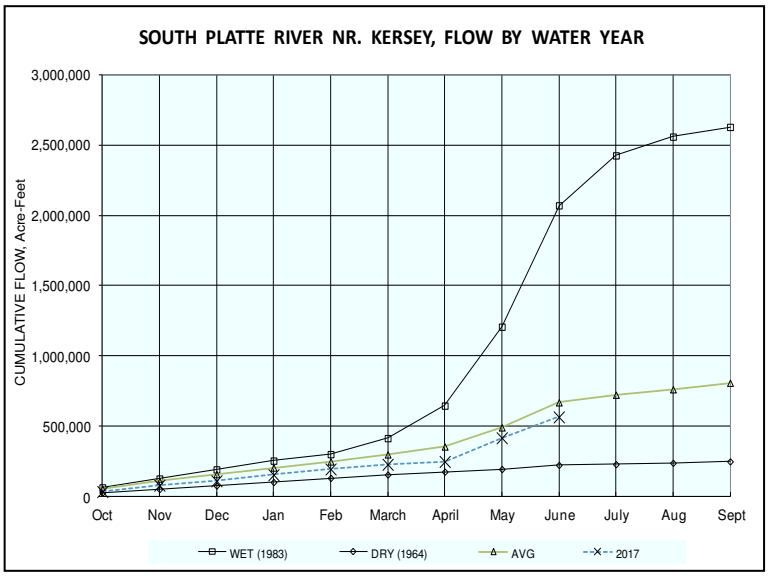
Water Volume NEP Color Scale: 0 (Well Below Normal) | 50 (Normal) | 100 (Well Above Normal)

Basinwide Conditions Assessment

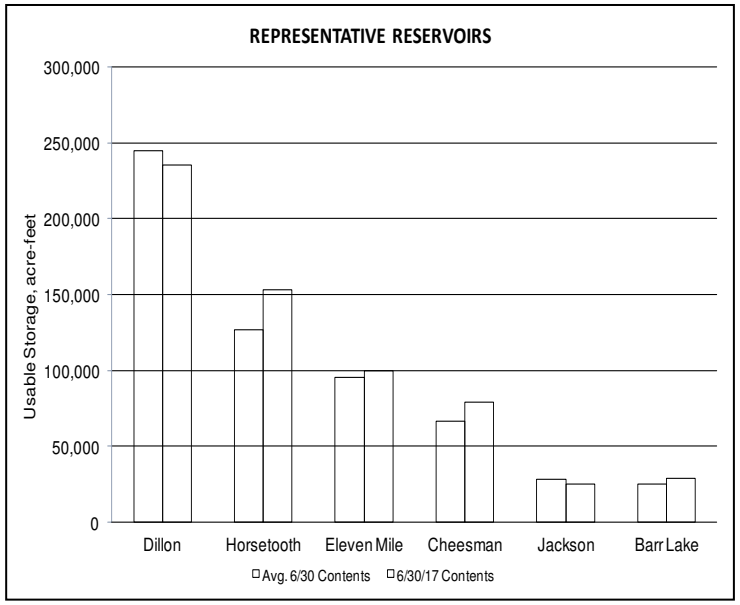
The SWSI value for the month was +2.5. There was a definite change in weather pattern in from May to June 2017 in northeast Colorado. Where May had been cool and wet, June turned out to be warm and dry. Though the temperatures in June were not extreme, temperatures everywhere in northeast Colorado were above normal. In terms of precipitation, only Yuma and Kit Carson counties on the far eastern edge of Colorado experienced near normal precipitation. The rest of northeast Colorado generally experienced significantly below normal precipitation.

Despite the lack of precipitation in June, the USDA Drought Monitor ratings in northeast Colorado remained essentially unchanged from the end of May through the end of June. There was an area with a D0 "Abnormally Dry" rating covering most of Park and Teller Counties, but the rest of northeast Colorado had no drought rating.

In June the Kersey and Julesburg index gages displayed a flow regime similar to, but opposite of, the May flow regime. In May, the first part of the month displayed below average flows that move to above average as the snowmelt runoff started. In June, the first part of the month displayed above average flows as the snowmelt runoff continued, but moved to below average later in the month as the runoff declined and the lack of June precipitation became apparent. The overall June mean flow at the Kersey gage was approximately 2504 cfs or 108% of the long term mean flow of 2308 cfs. The overall June mean flow at the Julesburg gage was approximately 1193 cfs. This represents a flow of 84% of the long term mean flow of 1426 cfs.



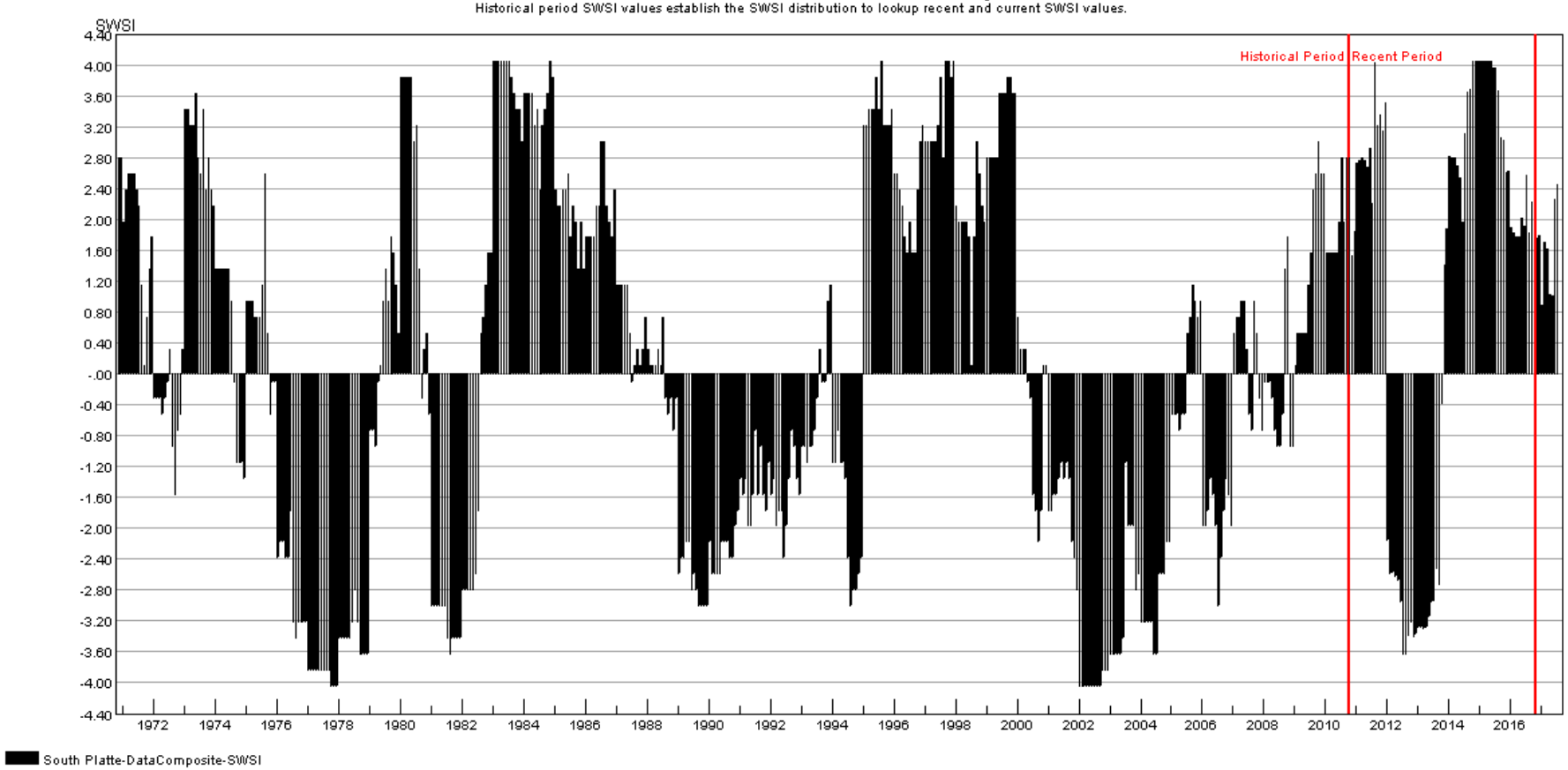
The change in the flow regime just discussed is reflected in the river calls on the South Platte. The South Platte mainstem went to free river below Cheesman Reservoir at noon on May 18 and remained there until noon on June 10. Mainstem calls then fluctuated a bit before moving toward ever more senior calls to the point the entire main stem was under an 1897 call by June 30 (either from the Harmony Ditch or the South Platte Compact). Many of the major tributaries were controlled by the South Platte call for most of June. That began to change toward the end of the month as more and more of the major tributaries moved to being internally controlled with calls senior to the South Platte call.



South Platte storage remained good through June 2017 as conditions did not warrant drawing on reservoirs – though there was only a minimal gain in storage. The end of May storage was at 94% of capacity. The end of June storage was 96% of capacity. This is better than the long term average end of June storage (85% of capacity).

South Platte Basin SWSI History

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



Basinwide Conditions Assessment

The SWSI value for the month was +2.9.

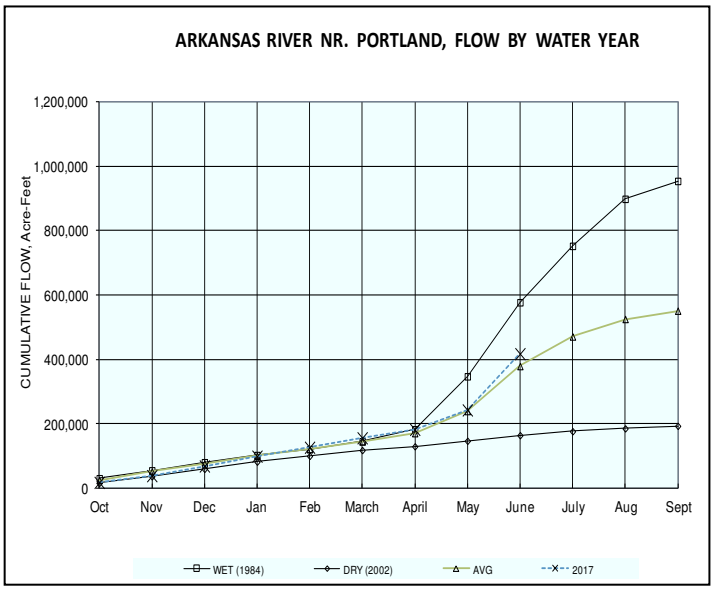
Outlook

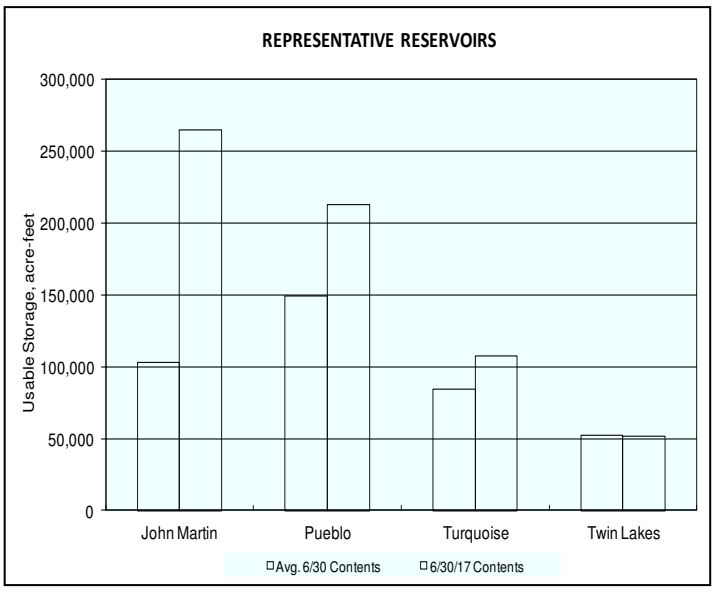
Snowmelt runoff peaked on June 20, 2017 at the Arkansas River at Canon City gage at 4,260 cubic feet per second, nearly identical to the 2016 peak flow (4,220 cfs) at this same gage. Runoff remained strong throughout June providing a good supply for downstream water rights. John Martin Reservoir remained in storage for the entire month of June. Kansas called for significant releases of water from John Martin Reservoir beginning on June 15, 2017. Content in John Martin Reservoir peaked on June 28, 2017 at a storage volume of 266,232 acre-feet or approximately 80% of the active storage volume.

Administrative/Management Concerns

Colorado Parks and Wildlife, in cooperation with the Lower Arkansas Water Management Association (LAWMA), was able to deliver 252 acre-feet of water to the Permanent Recreational Pool in John Martin Reservoir from LAWMA's Highland Canal water rights on the Purgatoire River. This delivery followed several years of negotiation between Colorado and Kansas representatives of the Arkansas River Compact Administration, the Colorado State Engineer's Office and the Kansas Department of Agriculture.

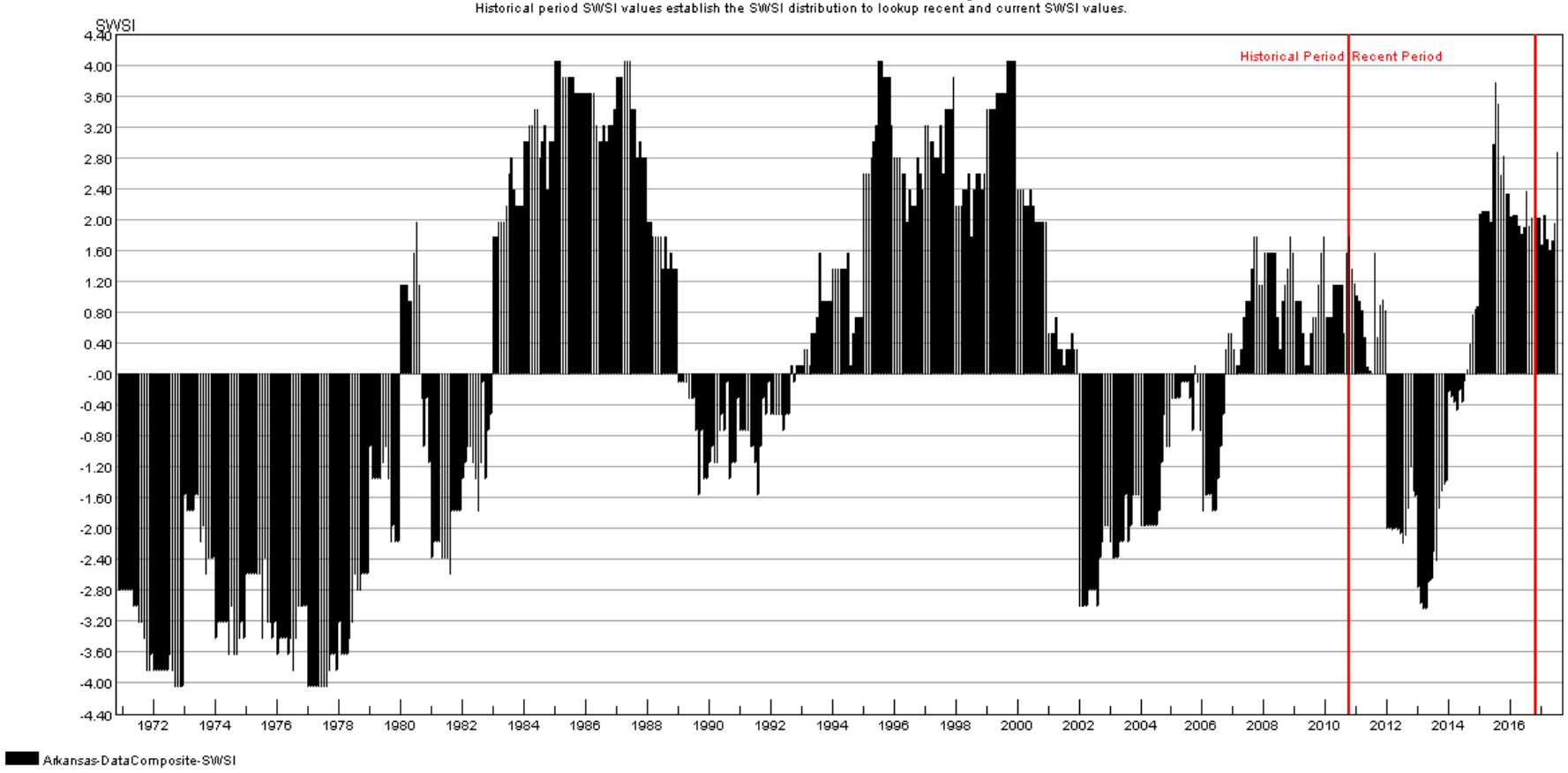
June 30, 2017 marked the retirement of Dick Wolfe as State Engineer. Dick's contributions to the Arkansas River Basin and throughout the State of Colorado will be dearly missed.





Arkansas Basin SWSI History

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



Basinwide Conditions Assessment

The SWSI value for the month was +1.1. Flow at the gaging station Rio Grande near Del Norte averaged 3045 cfs (103% of normal). The Conejos River near Mogote had a mean flow of 1275 cfs (116% of normal). Area streams with higher elevation headwaters peaked between June 5 and 10. The declining part of the annual hydrograph may now be very steep and quick without significant precipitation.

The higher elevations and the Valley floor received below average precipitation during June. The month started out with rain in the San Luis Valley but went dry for the duration. The warm, windy days were tough on the remaining snowpack.

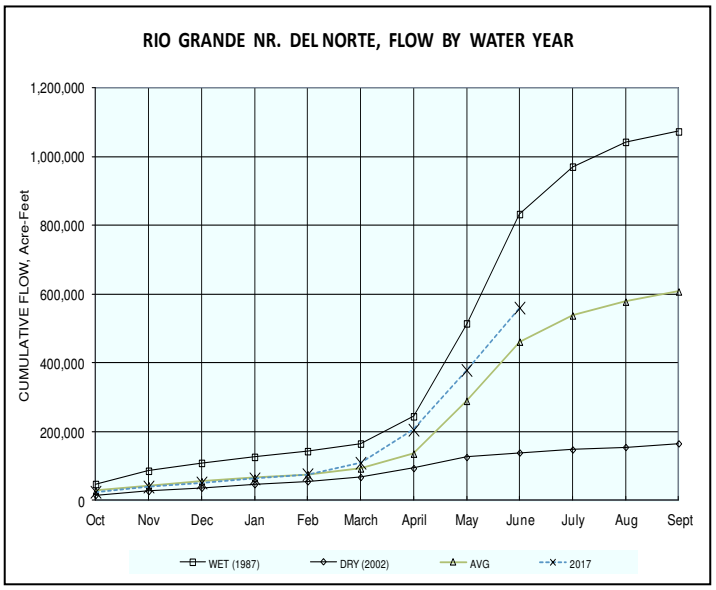
Outlook

The NWS 90-day forecasts for July through September suggest higher than normal temperatures and a chance for above average precipitation.

Administrative/Management Concerns

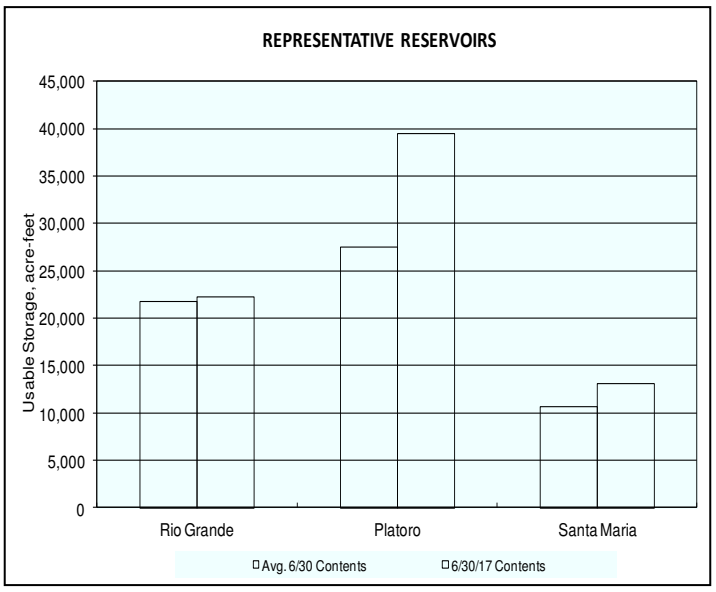
Some of the upper Rio Grande basin streamflows have not been as plentiful as expected. The result is the lessening of water right curtailment on the Rio Grande and the Conejos to meet the Rio Grande Compact delivery obligation. What was shaping up to be a very high runoff year for this portion of the state, has in reality, produced spotty results.

On a positive note, the very good runoff from the Sangre de Cristo mountains near Fort Garland has resulted in the nearly full Smith and Mountain Home Reservoirs. Platoro (on the Conejos River) and Sanchez (Culebra Creek) Reservoirs have also received significant storage gains, but with plenty of space left. The other irrigation supply reservoirs in the upper Rio Grande basin are well below spill level.



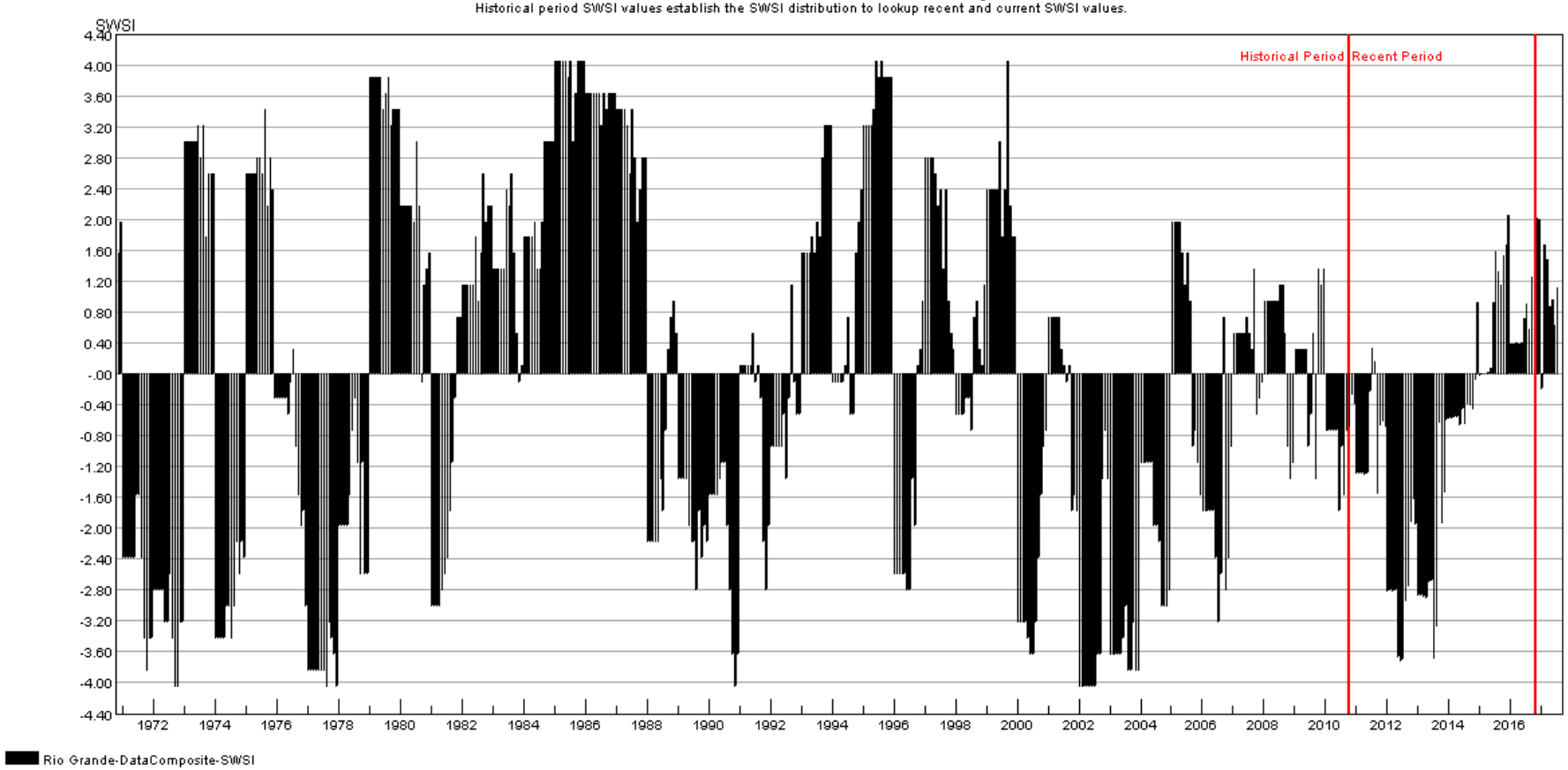
Administrative/Management Concerns

Consistently sunny conditions favored the farmers and ranchers and aided the growth of crops and grazing land during the last three weeks of June. The first cutting of hay and alfalfa yielded well and was put up without being rained on.



Rio Grande Basin SWSI History

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



Basinwide Conditions Assessment

The SWSI value for the month was +2.3. June was definitely dry and hot over the entire Gunnison basin. Precipitation during the month was dismal at 0-30% of the 30 year average for the month, while temperatures were 5-7 degrees above average. Although the warm weather has dried out fields and caused greater demand for water, above average snowpack has resulted in greater than average flows for most streams.

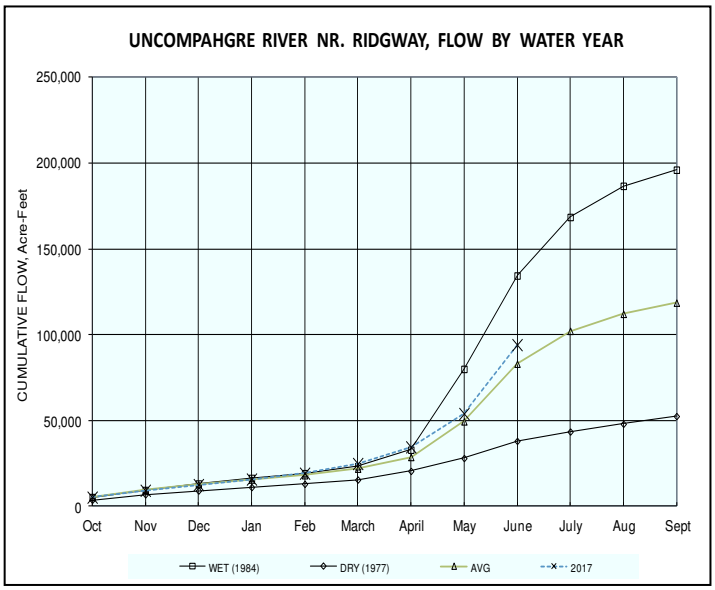
Outlook

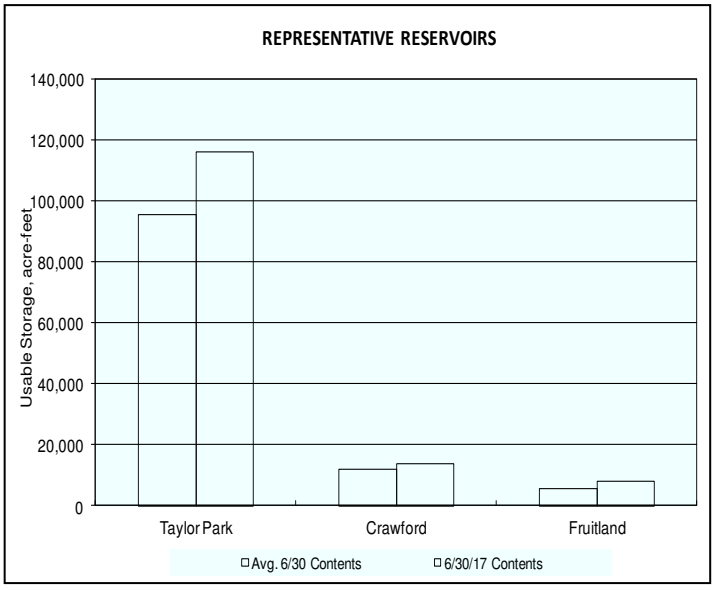
The most recent NWS forecast for July through September includes equal chances of below or above average precipitation and above average chances for greater than average temperatures in the Gunnison basin.

Administrative/Management Concerns

April to July inflow projected for Blue Mesa Reservoir increased to 840,000 acre-feet on June 1st. This returns the system to a moderately wet year category, as defined by the chart included in the Record of Decision for the Aspinall Unit Operations EIS. Although this would take the target duration for 8,070 cfs flows from 20 to 40 days and the peak flow duration from two to ten days, the USBR had completed the peak flow operations in May and accomplished four days above 14,040 cfs and could not produce that level of release again.

The second fill account in Taylor Park Reservoir is full as of June 17th and the first fill account, which is entirely stored in the Aspinall Unit, contains 105,747 acre-feet. The rapid high country snowmelt caused by the shift to hot weather in early June produced inflows to Taylor Park Reservoir greater than expected. As a result, operations at the dam included releases at much greater levels than originally planned. In fact, the release schedule included a peak release of 550 cfs in the first two weeks of June. That was increased to over 1,000 cfs from June 17th to June 25th in order to prevent a spill. Spills over the Taylor Park spillway are not desirable because of the potential to allow live mysis shrimp, which live in the Reservoir, to get into the Taylor River below the dam. During normal releases through the pressurized outlet, mysis shrimp perish, thus preventing the release of live shrimp. Releases through the open channel spillway, however, do not have the same effect. The increased releases prevented a spill at Taylor Park, but it was close, as the water came within just 10 inches of the spillway crest.



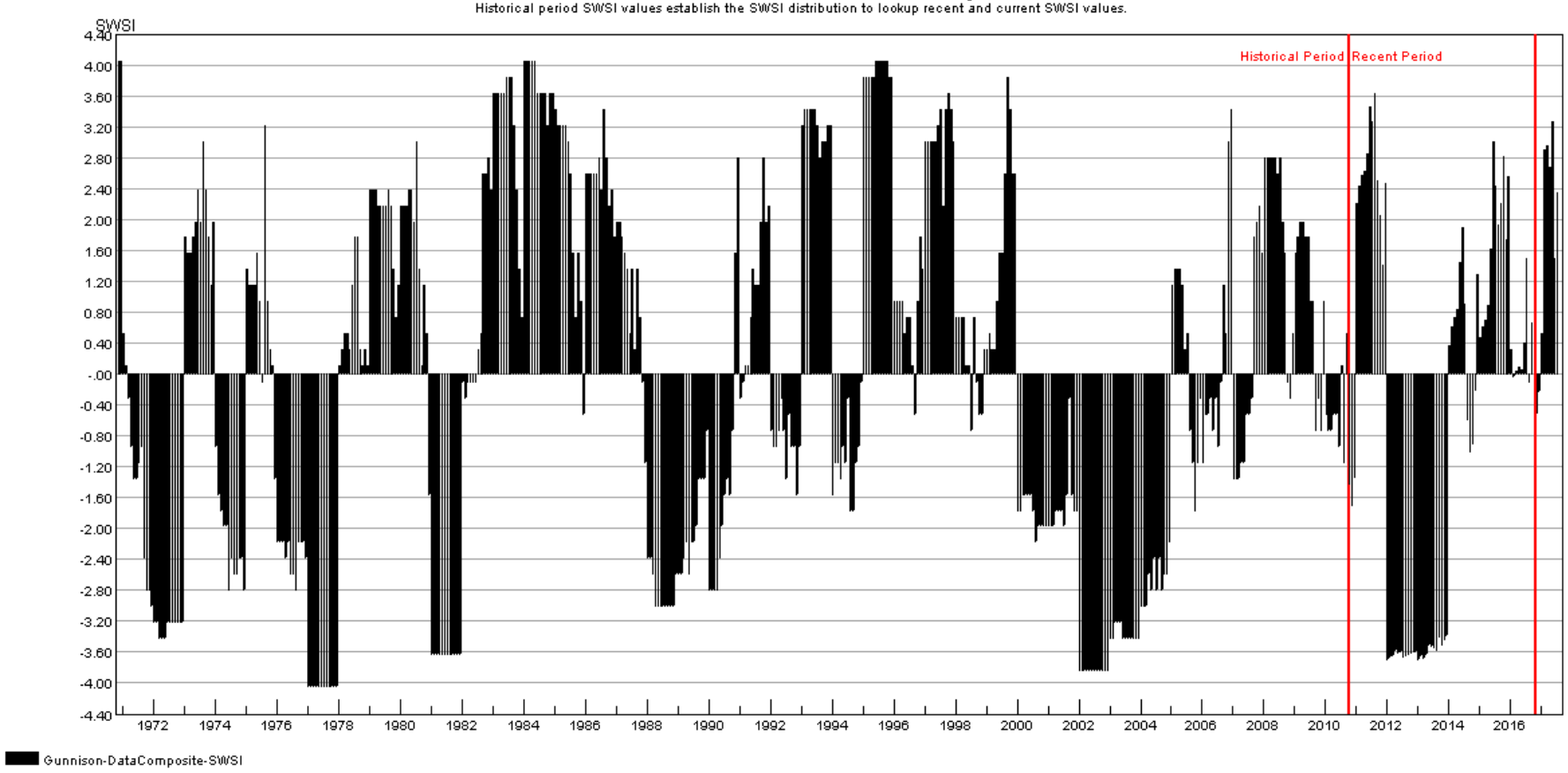


Public Use Impacts

Reports from anglers in the Gunnison Gorge have been good as the completion of springtime releases from Crystal on June 7th meant that the River was fishable for most of the month. The 1,000 cfs releases from Taylor Park during June had some detrimental impact on fishing below, but it was short lived.

Gunnison Basin SWSI History

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

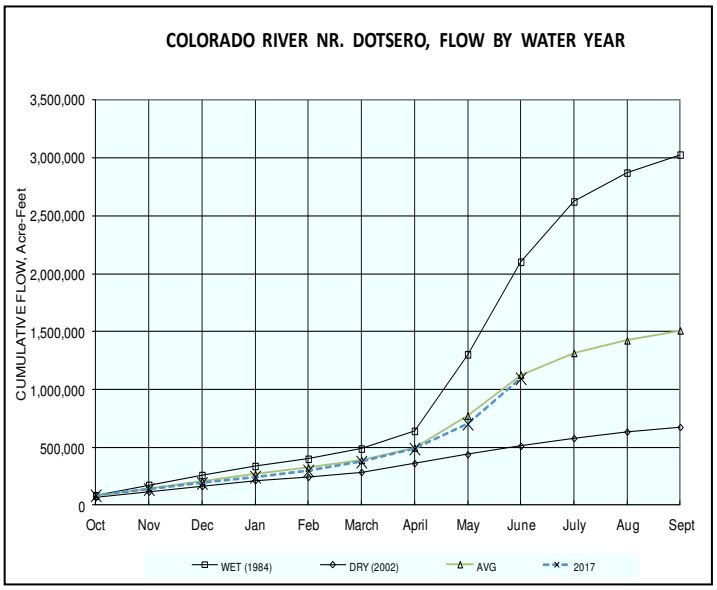


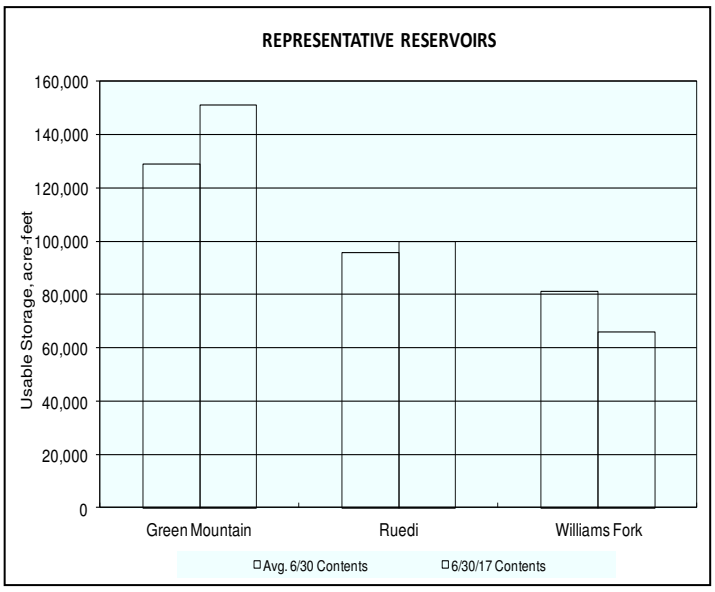
Basinwide Conditions Assessment
The SWSI value for the month was +0.9.

Outlook
Colorado River flows are gradually falling, and are slightly above average with all tributary flows running slightly above average and forecasted to remain about average throughout July. Average temperatures and above average precipitation are forecast for July. Reservoir releases in general, will gradually decrease throughout July as inflows fall.

Administrative/Management Concerns
There is currently no call on the Colorado River. Grand Valley Irrigation diversions (Government Highline/Orchard Mesa Irrigation, Grand Valley Irrigation canals) continue at or near full capacity. Ruedi, Wolford and Green Mountain Reservoir releases are generally decreasing and reservoir storage is at or near capacity.

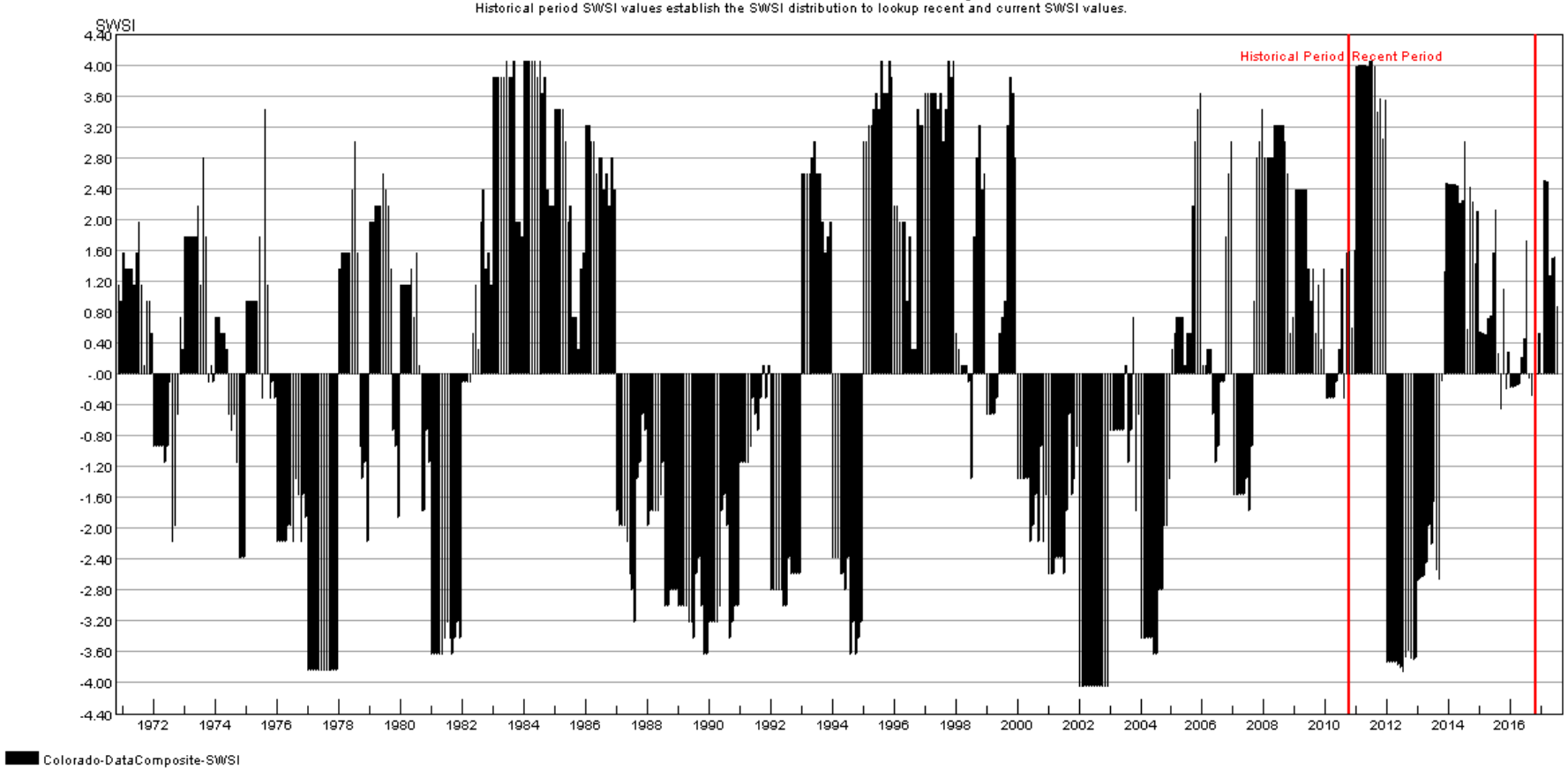
Public Use Impacts
With the spring runoff subsiding, the best dry fly fishing is happening in our local waters. Water clears rapidly and warms up which increases the intensity of the insect hatches. The intensity of the insect activity drives the local trout into a feeding frenzy.





Colorado Basin SWSI History

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



Basinwide Conditions Assessment

The SWSI value for the month was -0.6.

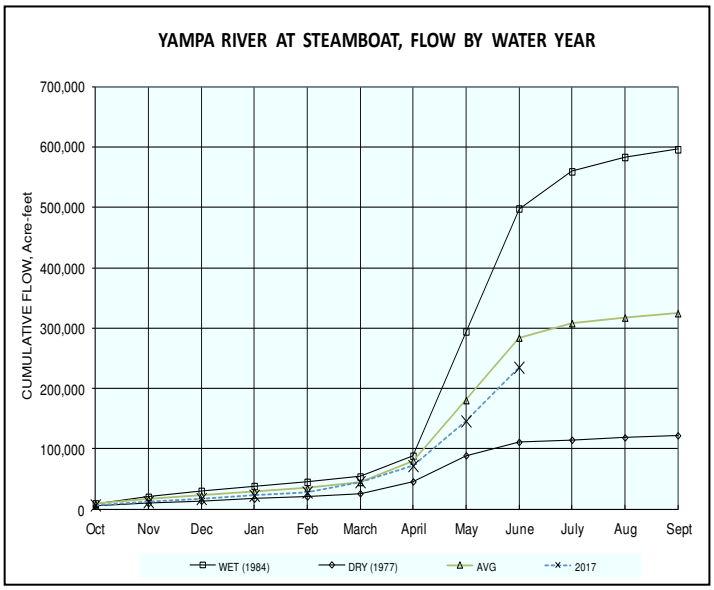
June precipitation was well below average in the Yampa, White, and North Platte River basins. Precipitation for the month, as measured at the SNOTEL sites operated by NRCS, was reported at 14% of average for the Yampa, White, and North Platte River basins. Total precipitation for the water year as a percent of average to date in the combined basins at the end of June was 104%.

All Division 6 stream gages are open with the exception of the Willow Creek gage below Steamboat Lake due to maintenance on the dam.

Outlook

As of June 30th Fish Creek Reservoir was storing approximately 3,126 AF, 75% of capacity. The capacity of Fish Creek Reservoir is 4,167 AF. Yamcolo Reservoir was storing 7,700 AF at the end of June 2017. The capacity of Yamcolo Reservoir is 8,700 AF. The G3 web server is not functioning currently for Elkhead Creek Reservoir. The capacity of Elkhead Creek Reservoir is 24,778 AF. On June 31, 2017, Stagecoach Reservoir was storing 35,100 AF, 96% 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.



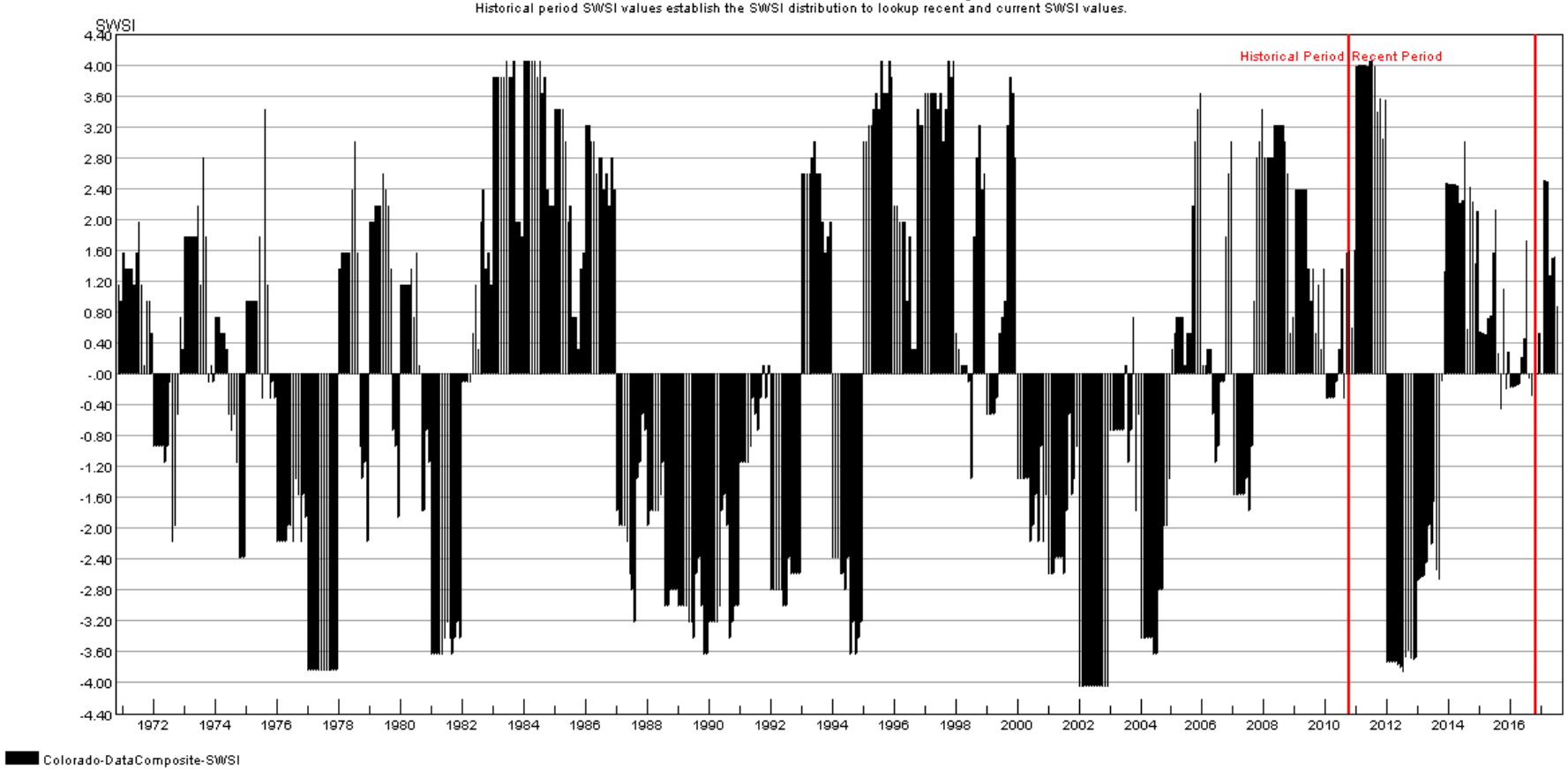
Public Use Impacts

Boat ramps at Stagecoach Reservoir State Park are now open through October 31st. Campgrounds and the swim beach are also open. Reservations are encouraged. Please check the Stagecoach Reservoir State Park website for a detailed fishing report or call 970-879-6552 for the latest fishing conditions.

Steamboat Lake has all campgrounds open. Boating and swimming are open for the summer. Fishing has been slowing down all over the lake. Boaters, shore and stream fisherman all reporting action but slower. Power bait has been doing well from shore. Kastmaster have been a hit with the boat fishermen. Early morning or later evening seems to be better. The Steamboat Lake Dam will be undergoing a year-long project to complete required maintenance and repairs. Sage Flats day use area and all access to the dam will be closed for the year. All other Park facilities and activities will be open and available.

Colorado Basin SWSI History

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

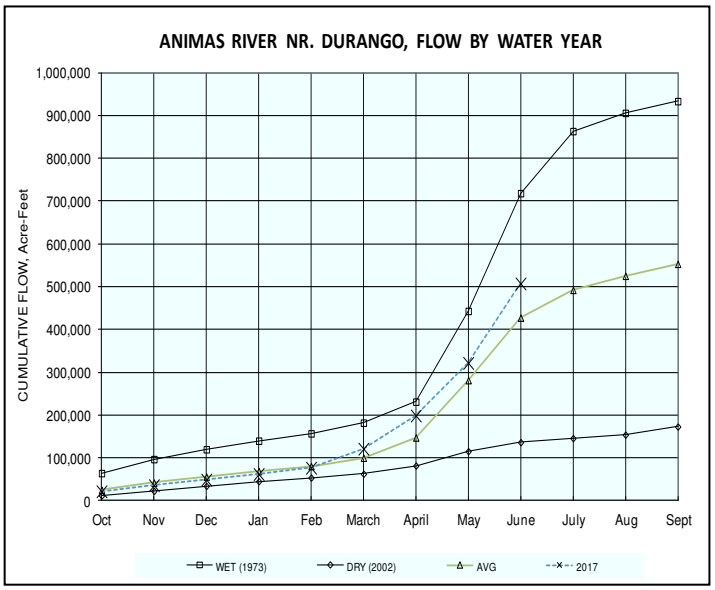


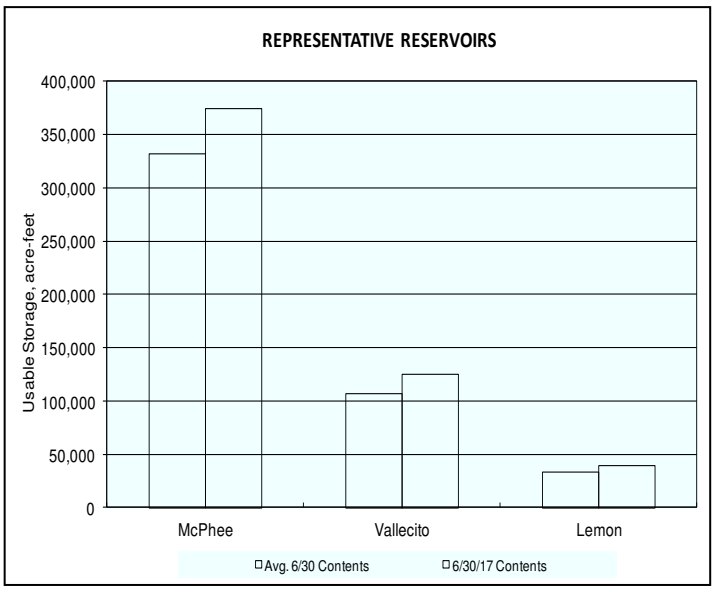
Basinwide Conditions Assessment

The SWSI value for the month was +1.8. Flow at the Animas River at Durango averaged 3,103 cfs (112% of average). The flow at the Dolores River at Dolores was estimated to average 1,641 cfs (126% of average). The La Plata River at Hesperus averaged 159 cfs (129% of average). Precipitation in Durango was 0.03 inches for the month, 5% of the 30-year average of 0.65 inches. Precipitation was the 113th highest amount recorded in June, in Durango, out of 123 years of record. Precipitation to date in Durango, for the water year, is 14.68 inches, 111% of the 30-year average of 13.17 inches. End of last month precipitation to date, for the water year was 118% of average. The average high and low temperatures for the month of June in Durango were 88o and 46o. In comparison, the 30-year average high and low for the month is 82o and 46o. At the end of the month Vallecito Reservoir contained 125,050 acre-feet compared to its average content of 105,133 acre-feet (119% of average). McPhee Reservoir was up to 374,634 acre-feet compared to its average content of 336,626 (111% of average), while Lemon Reservoir was up to 39,180 acre-feet as compared to its average content of 33,171 acre-feet (118% of average).

Outlook

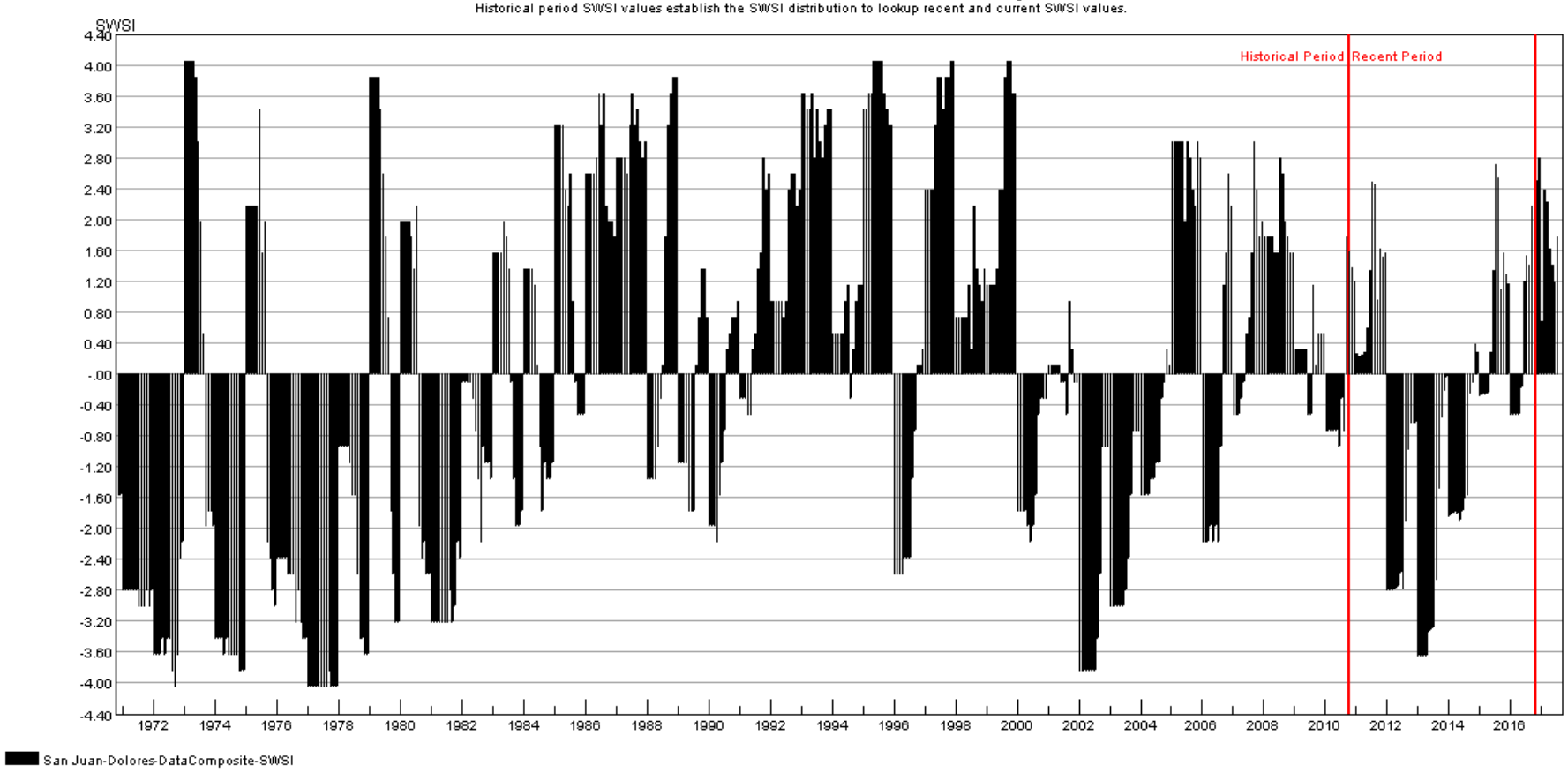
Precipitation (0.03 inches) was below average for June in Durango. June is typically the driest month of the year and this year was no exception. There were 113 years out of 123 years of record where there was more precipitation than this year. The flows in the rivers within the basin increased to slightly above average for this time of year. There was only 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 34 out of 106 years of record where the total flow past the Dolores stream gauge was more than this year and 28 out of 100 years of record where the total flow past the La Plata River at Hesperus gauge was more than this year.





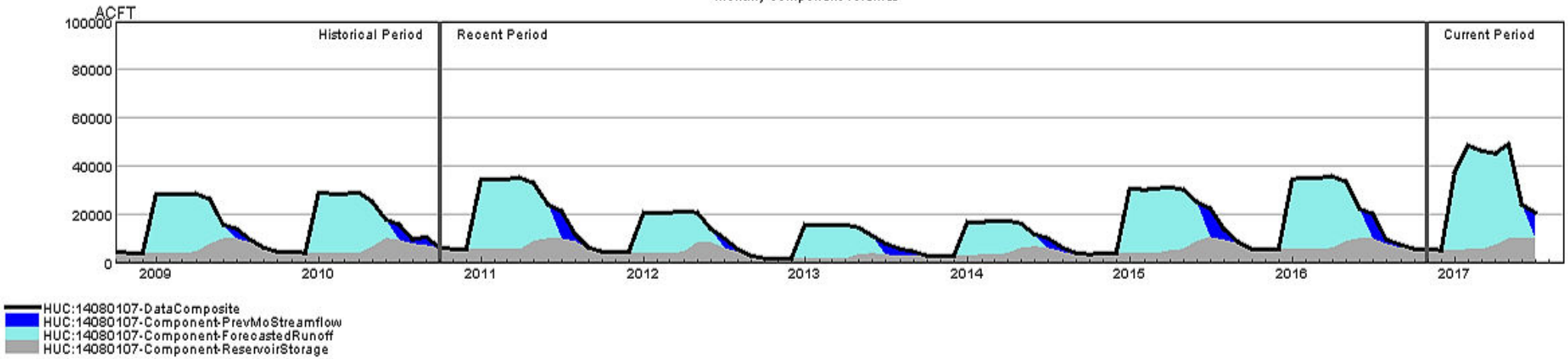
San Juan-Dolores Basin SWSI History

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



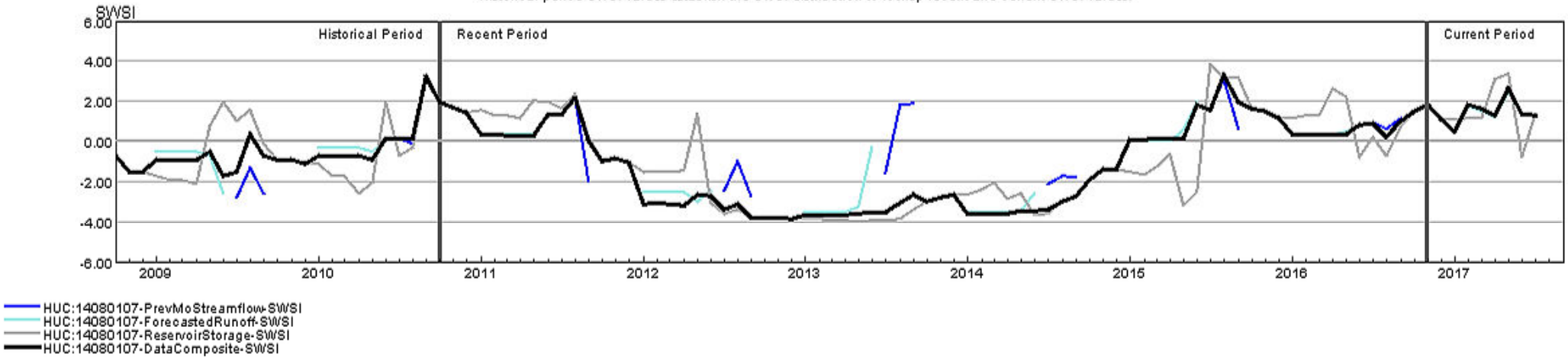
HUC 14080107 (Mancos) Surface Water Supply

Monthly component volumes



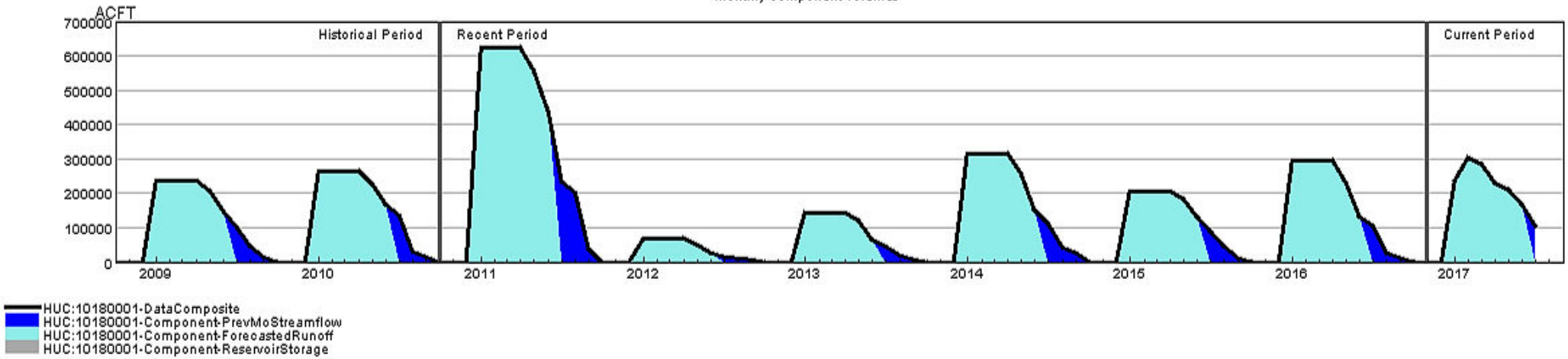
HUC 14080107 (Mancos) SWSI

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



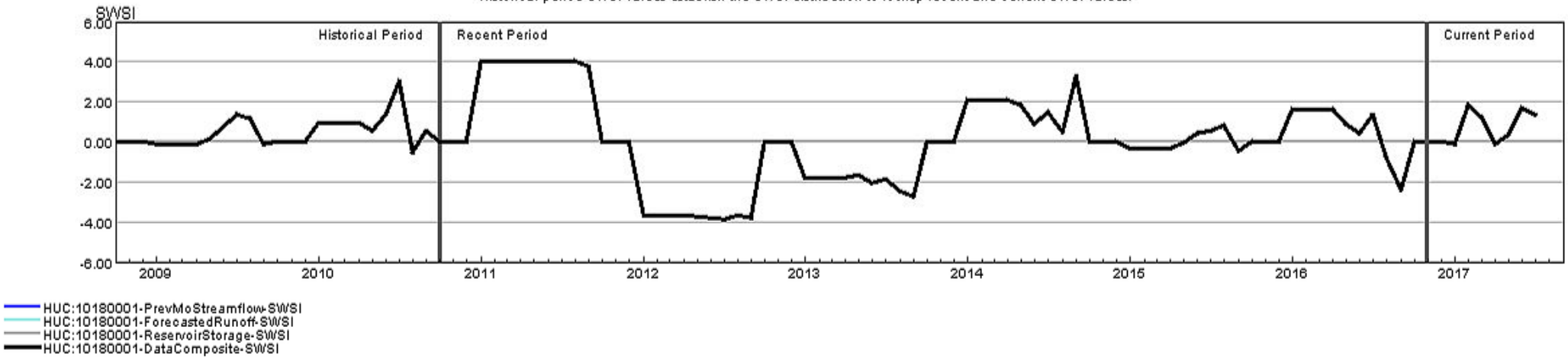
HUC 10180001 (North Platte Headwaters) Surface Water Supply

Monthly component volumes



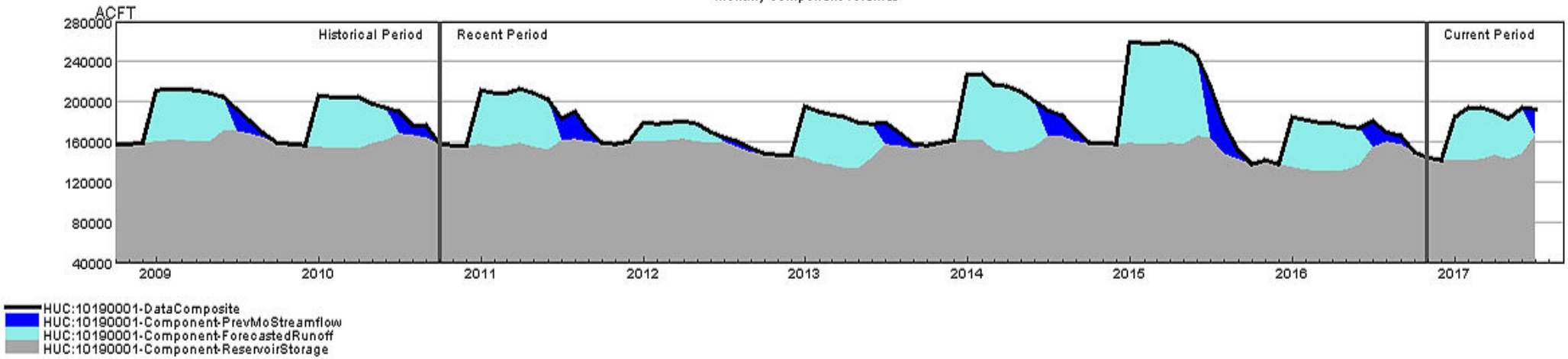
HUC 10180001 (North Platte Headwaters) SWSI

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



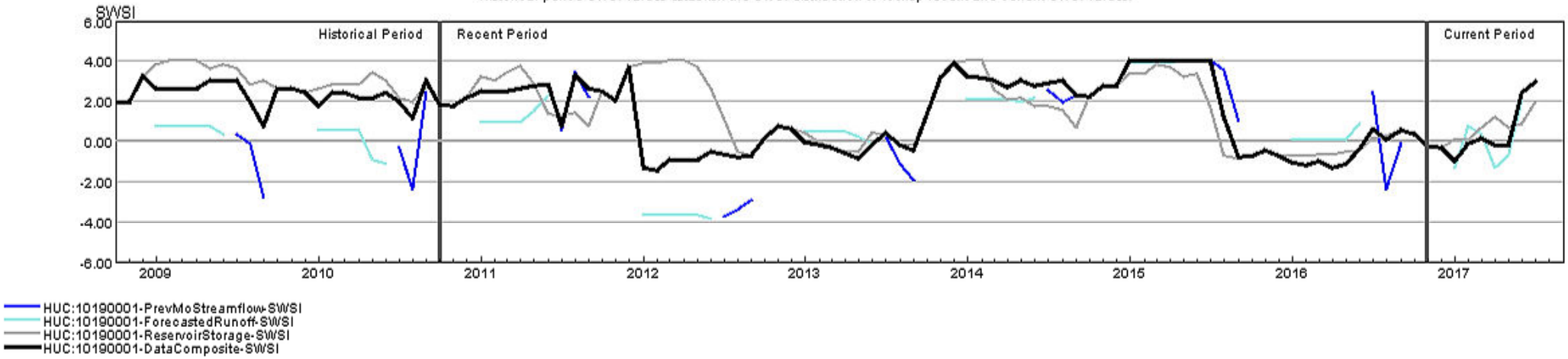
HUC 10190001 (South Platte Headwater) Surface Water Supply

Monthly component volumes



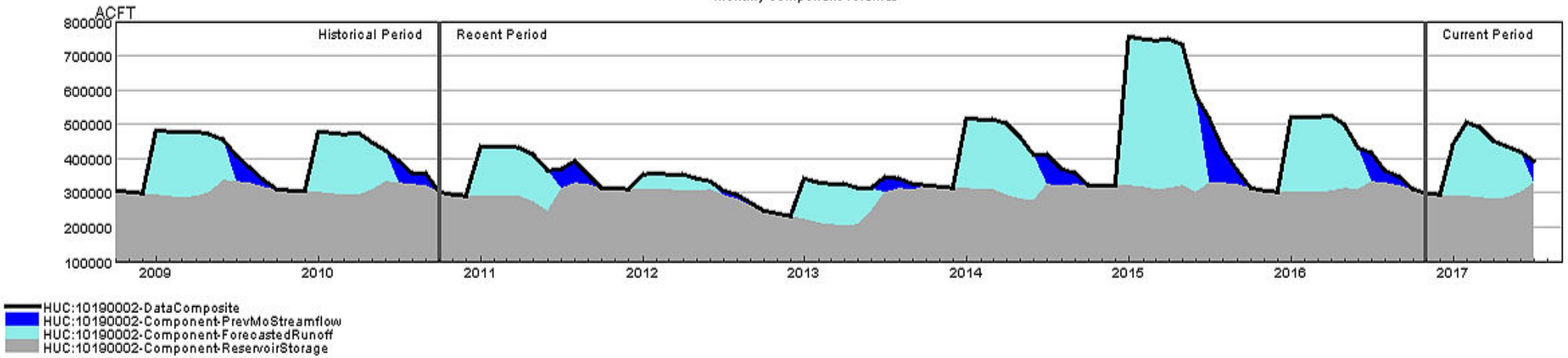
HUC 10190001 (South Platte Headwater) SWSI

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



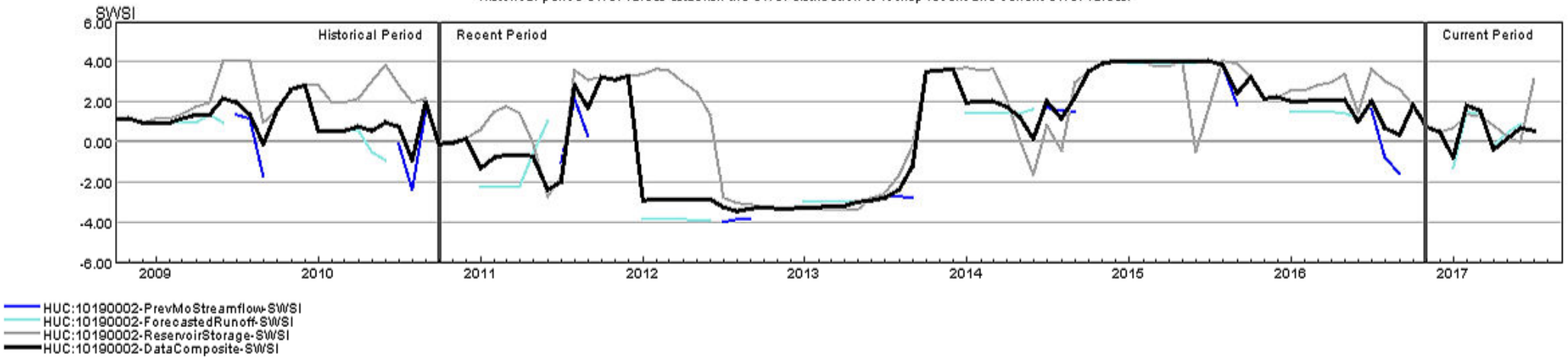
HUC 10190002 (Upper South Platte) Surface Water Supply

Monthly component volumes



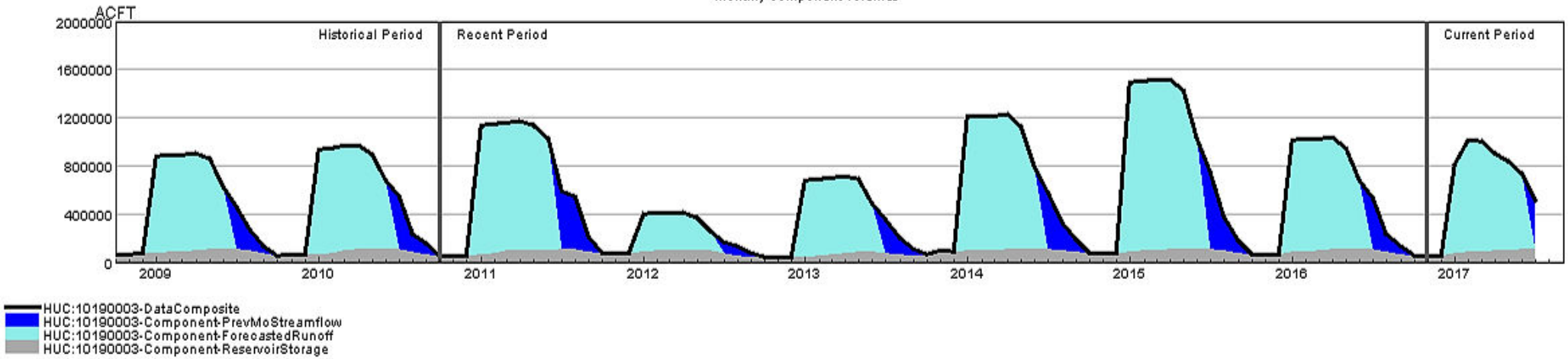
HUC 10190002 (Upper South Platte) SWSI

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



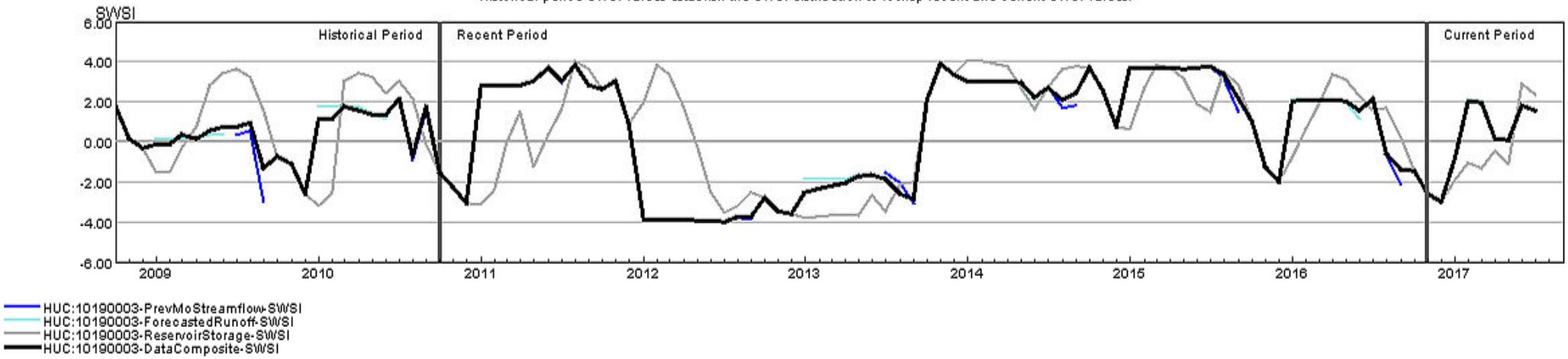
HUC 10190003 (Middle South Platte-Cherry Creek) Surface Water Supply

Monthly component volumes



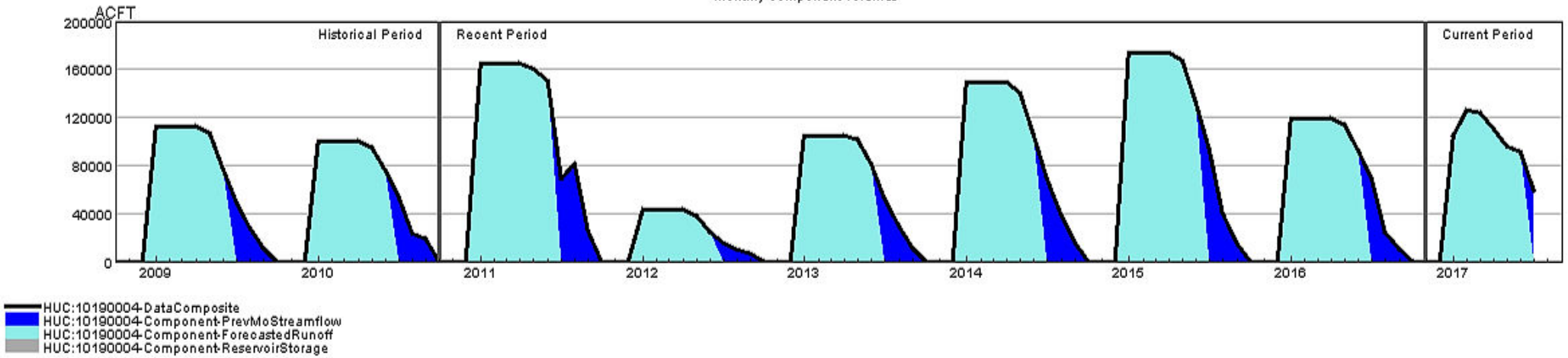
HUC 10190003 (Middle South Platte-Cherry Creek) SWSI

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



HUC 10190004 (Clear) Surface Water Supply

Monthly component volumes



HUC 10190004 (Clear) SWSI

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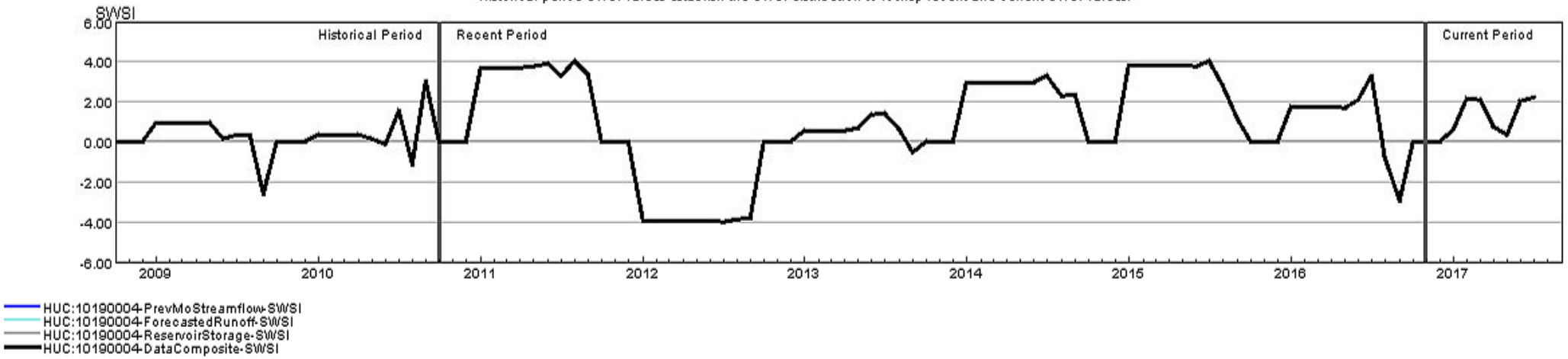
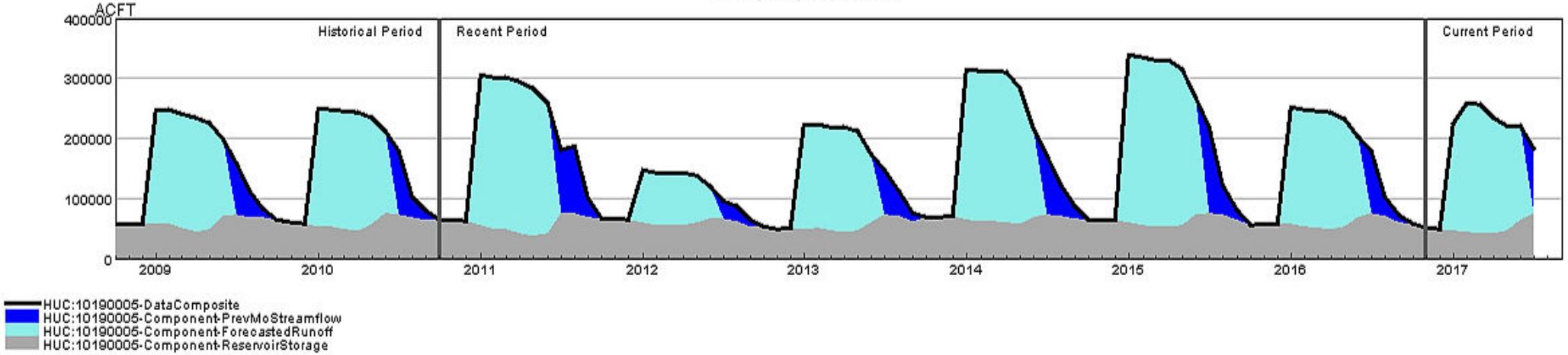


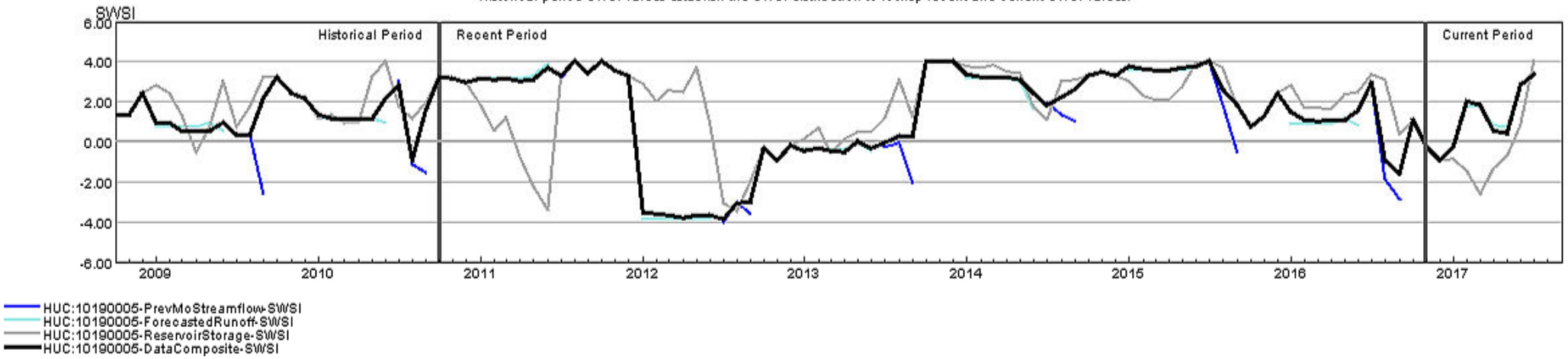
HUC 10190005 (St. Vrain) Surface Water Supply

Monthly component volumes



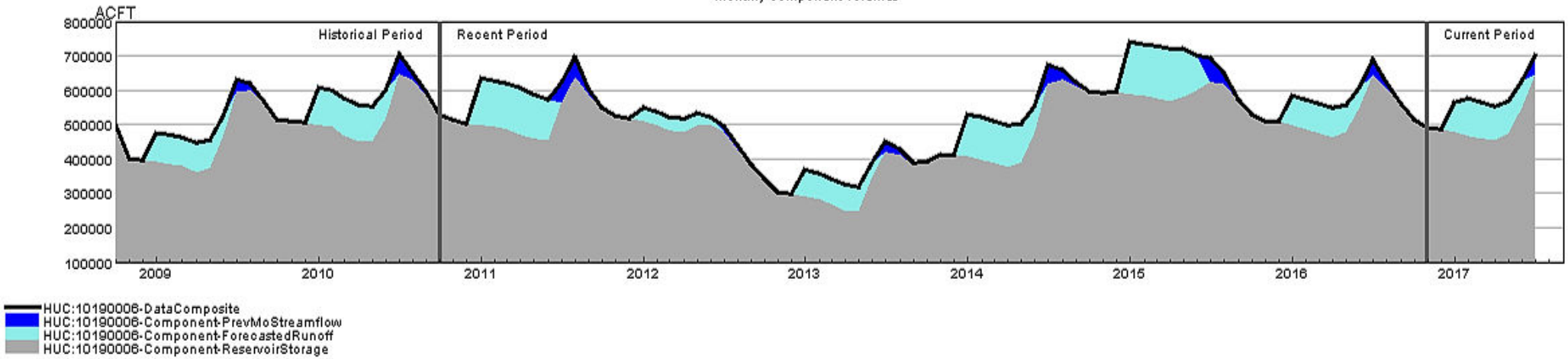
HUC 10190005 (St. Vrain) SWSI

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



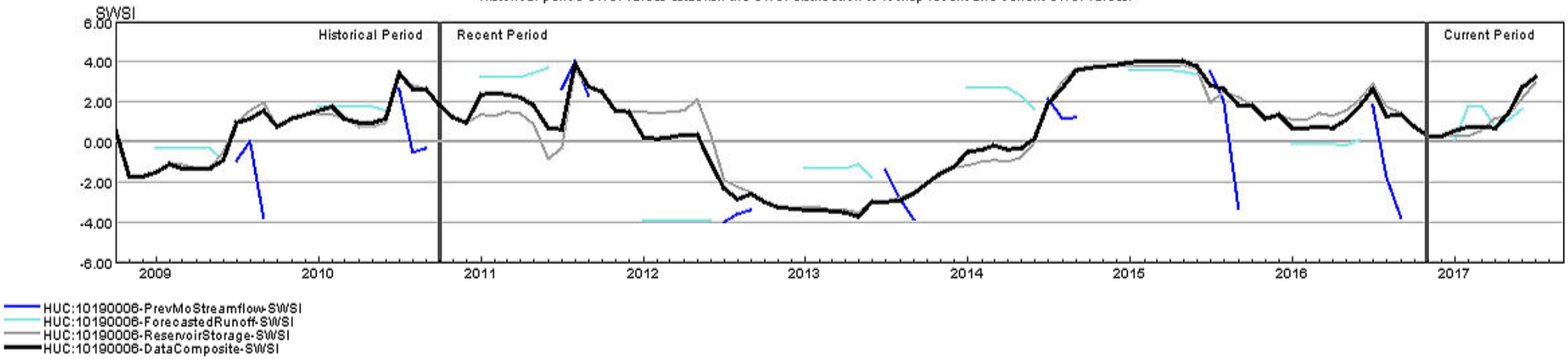
HUC 10190006 (Big Thompson) Surface Water Supply

Monthly component volumes



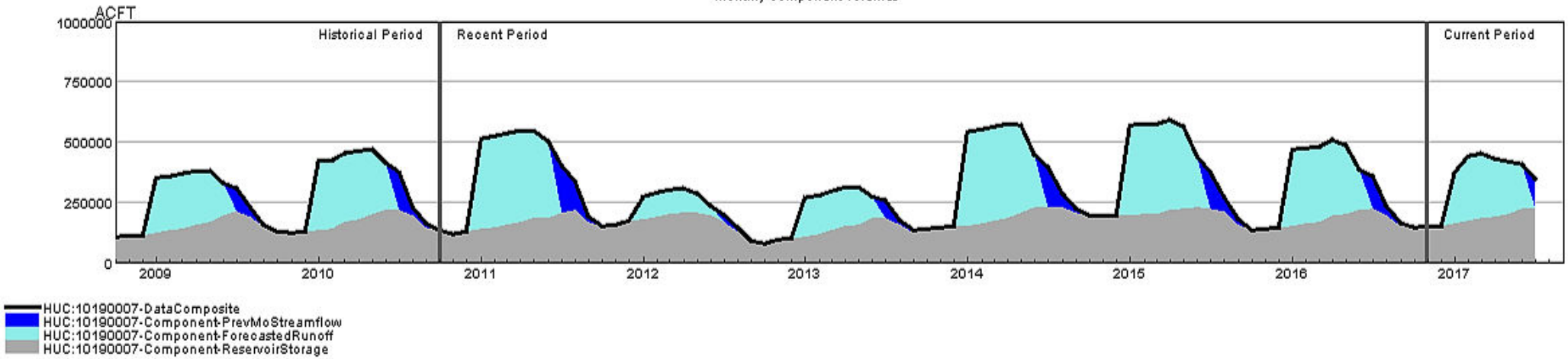
HUC 10190006 (Big Thompson) SWSI

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



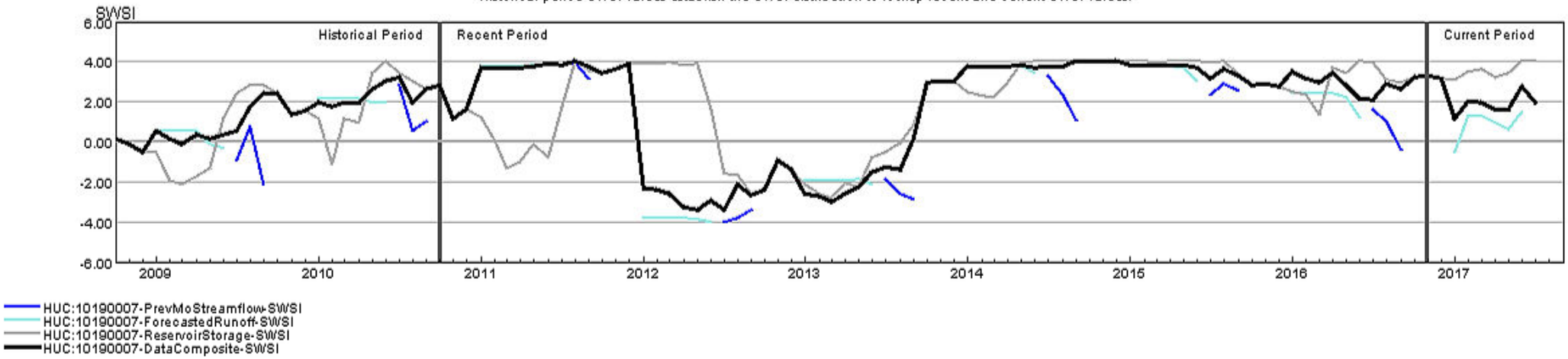
HUC 10190007 (Cache La Poudre) Surface Water Supply

Monthly component volumes



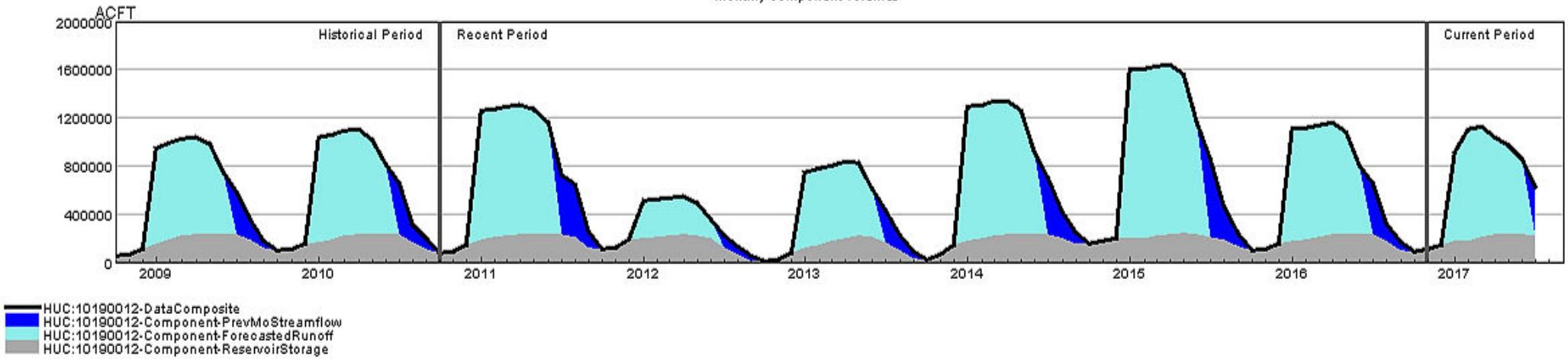
HUC 10190007 (Cache La Poudre) SWSI

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



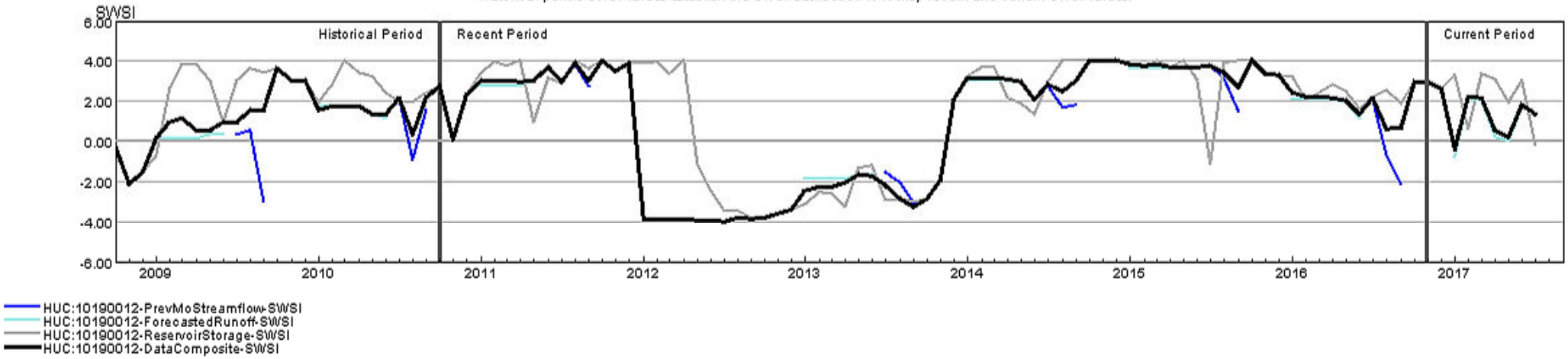
HUC 10190012 (Middle South Platte-Sterling) Surface Water Supply

Monthly component volumes



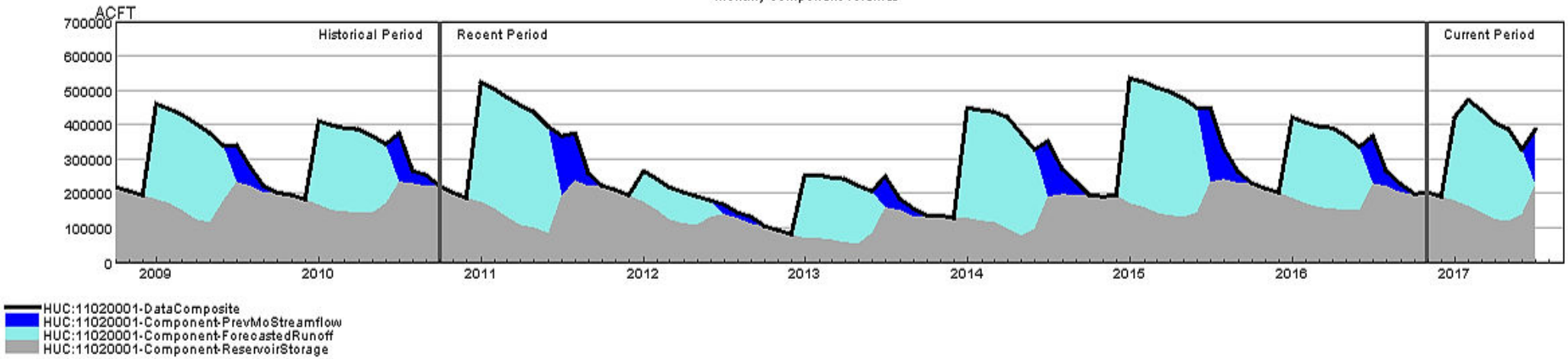
HUC 10190012 (Middle South Platte-Sterling) SWSI

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



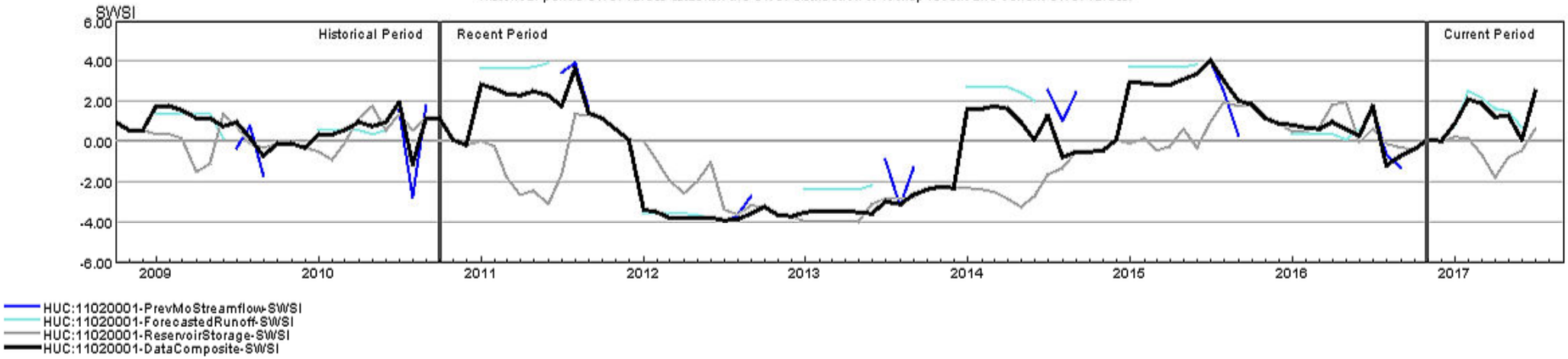
HUC 11020001 (Arkansas Headwaters) Surface Water Supply

Monthly component volumes



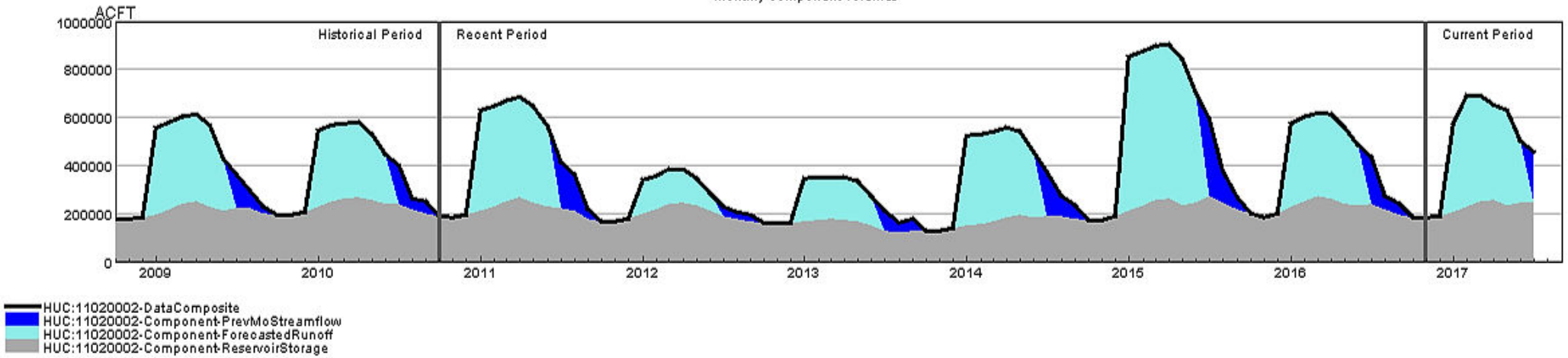
HUC 11020001 (Arkansas Headwaters) SWSI

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



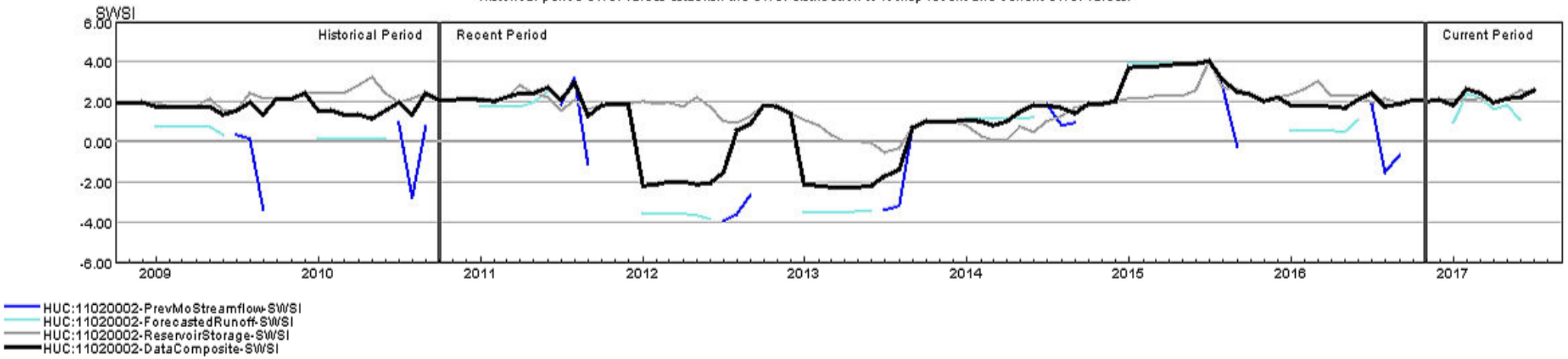
HUC 11020002 (Upper Arkansas) Surface Water Supply

Monthly component volumes



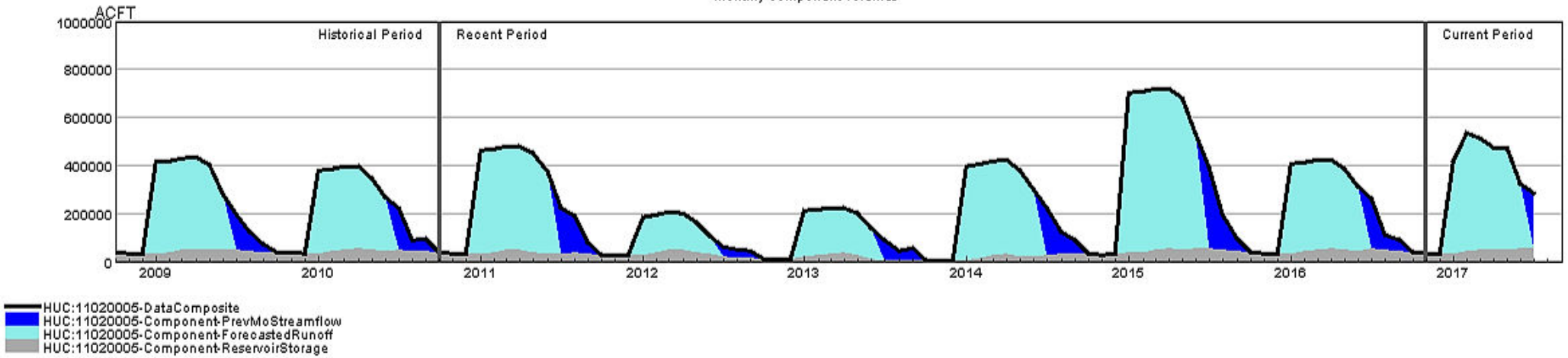
HUC 11020002 (Upper Arkansas) SWSI

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



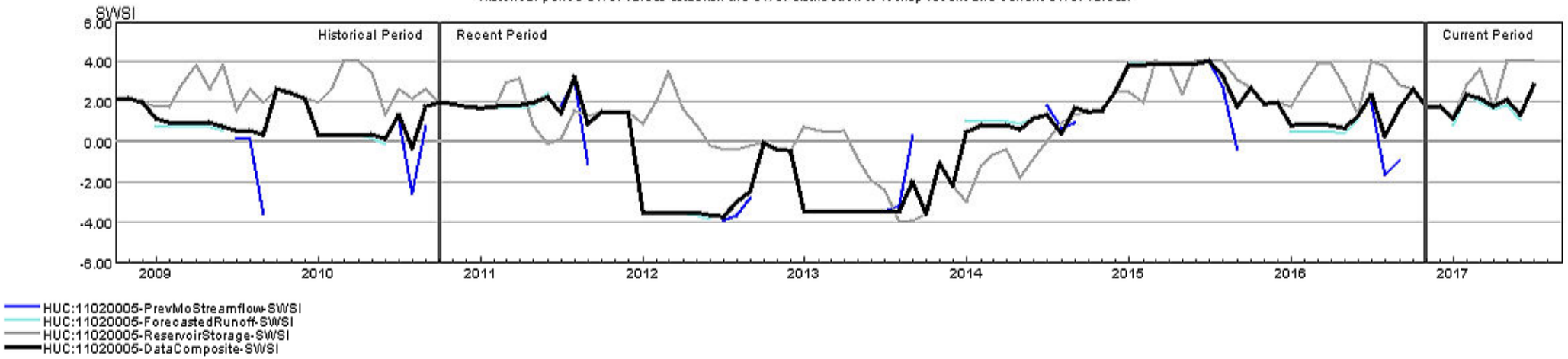
HUC 11020005 (Upper Arkansas-Lake Meredith) Surface Water Supply

Monthly component volumes



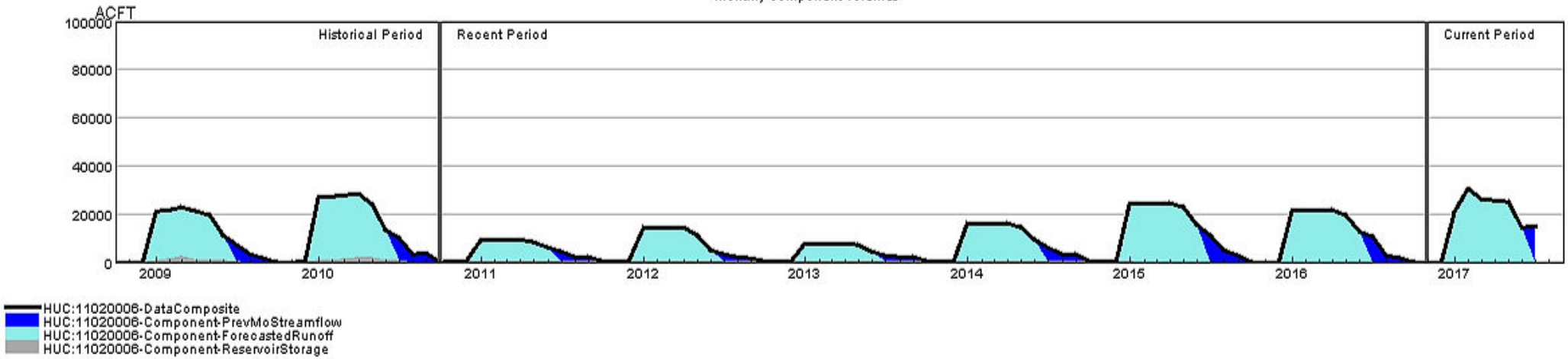
HUC 11020005 (Upper Arkansas-Lake Meredith) SWSI

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



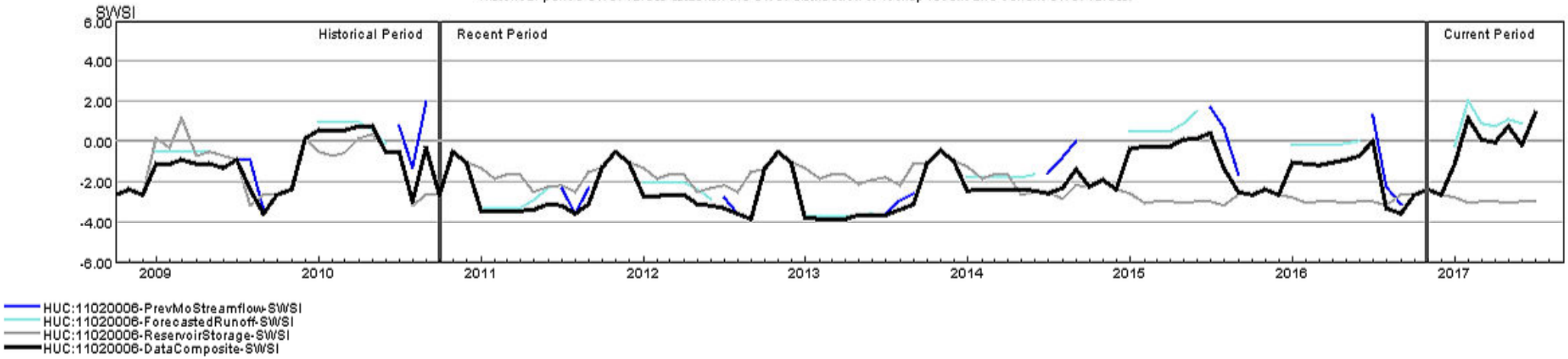
HUC 11020006 (Huerfano) Surface Water Supply

Monthly component volumes



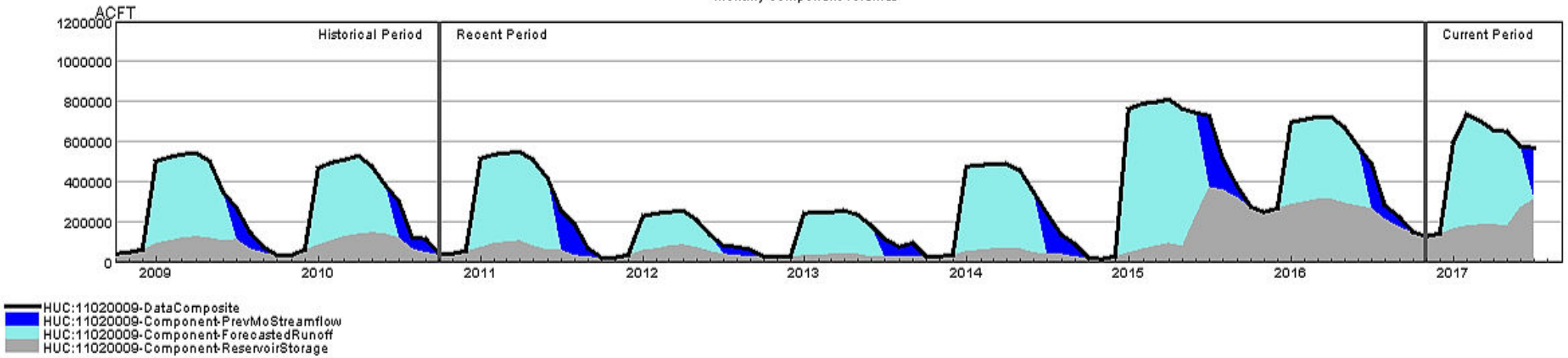
HUC 11020006 (Huerfano) SWSI

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



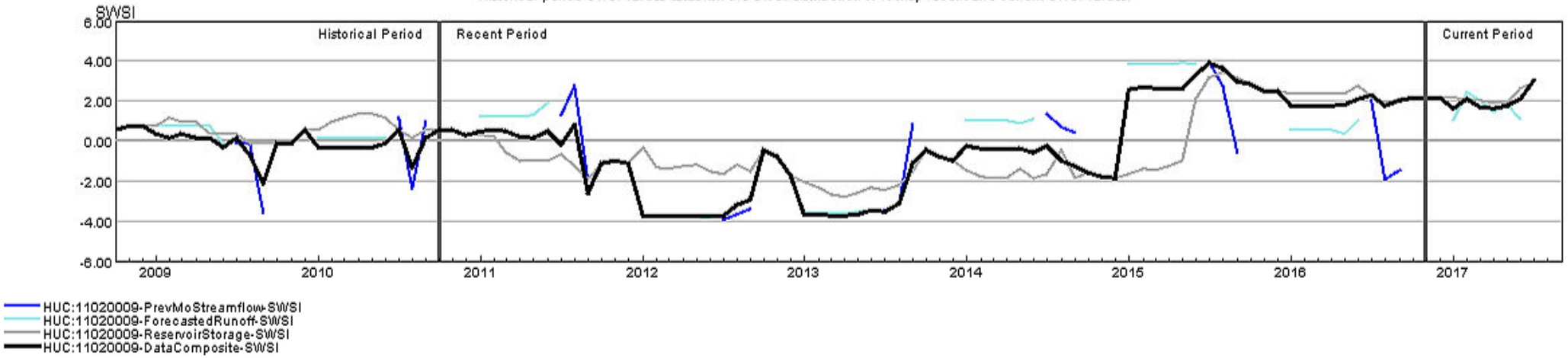
HUC 11020009 (Upper Arkansas-John Martin Reservoir) Surface Water Supply

Monthly component volumes



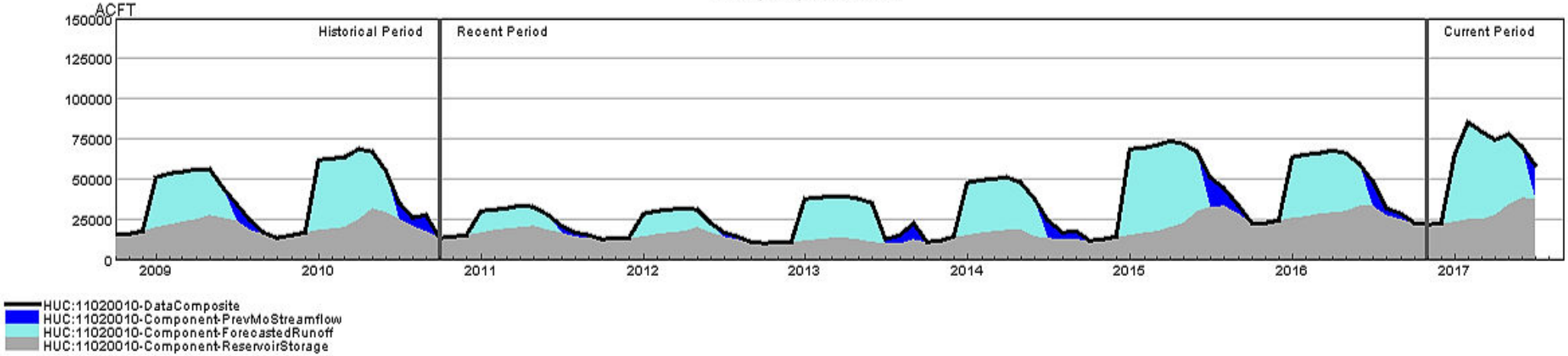
HUC 11020009 (Upper Arkansas-John Martin Reservoir) SWSI

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



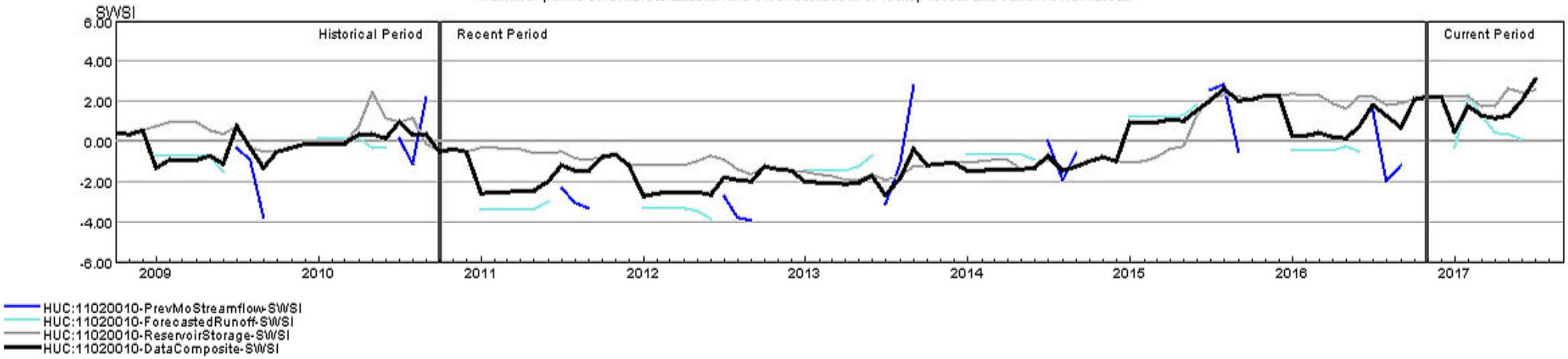
HUC 11020010 (Purgatoire) Surface Water Supply

Monthly component volumes



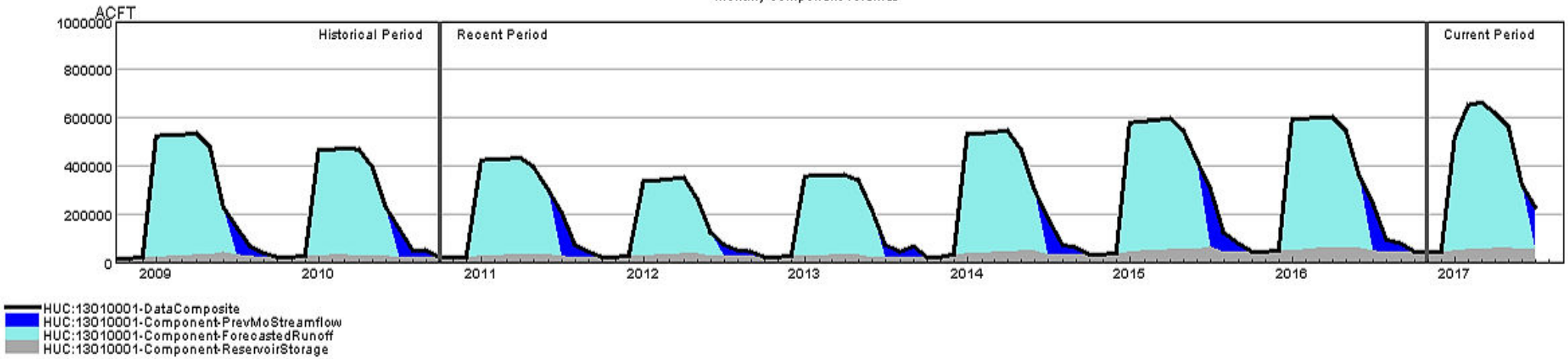
HUC 11020010 (Purgatoire) SWSI

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



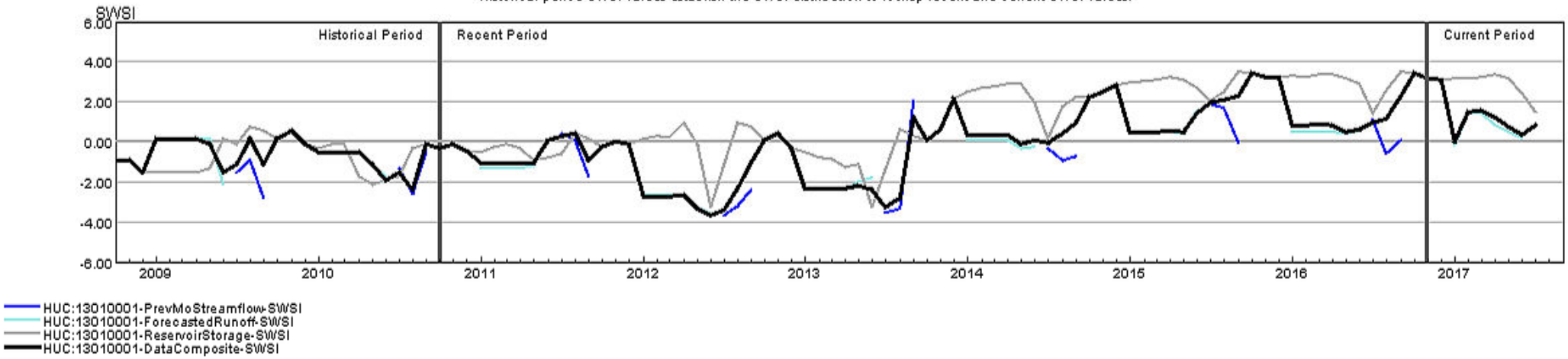
HUC 13010001 (Rio Grande Headwaters) Surface Water Supply

Monthly component volumes



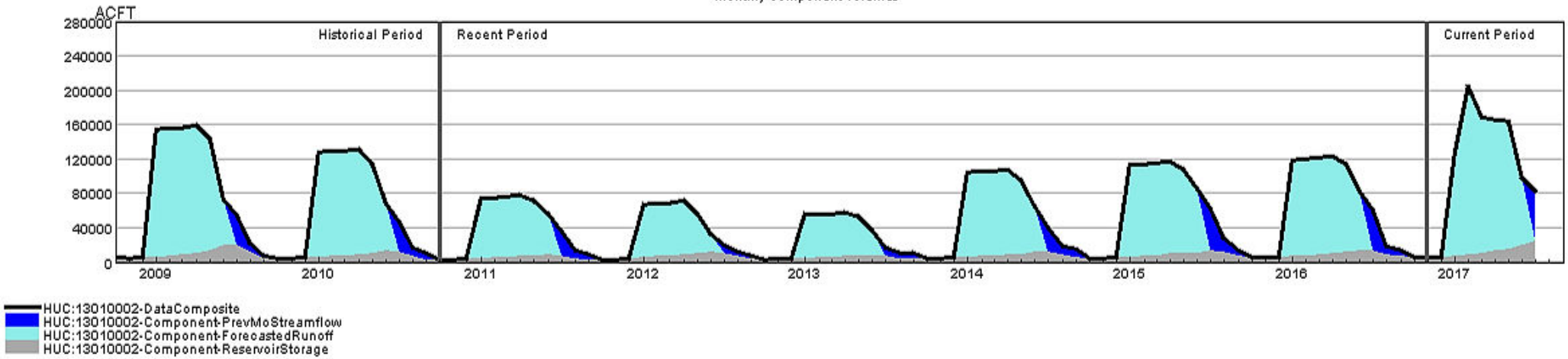
HUC 13010001 (Rio Grande Headwaters) SWSI

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



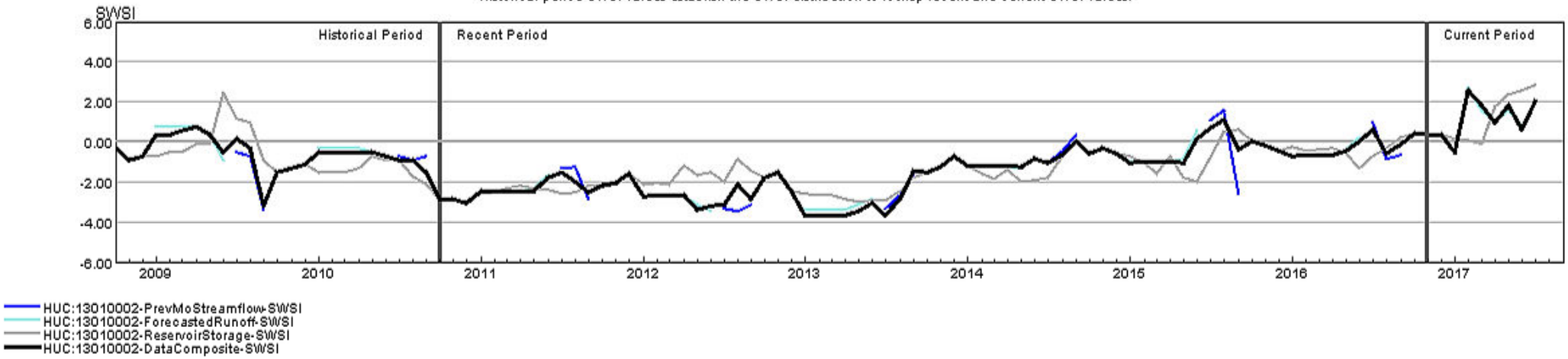
HUC 13010002 (Alamosa-Trinchera) Surface Water Supply

Monthly component volumes



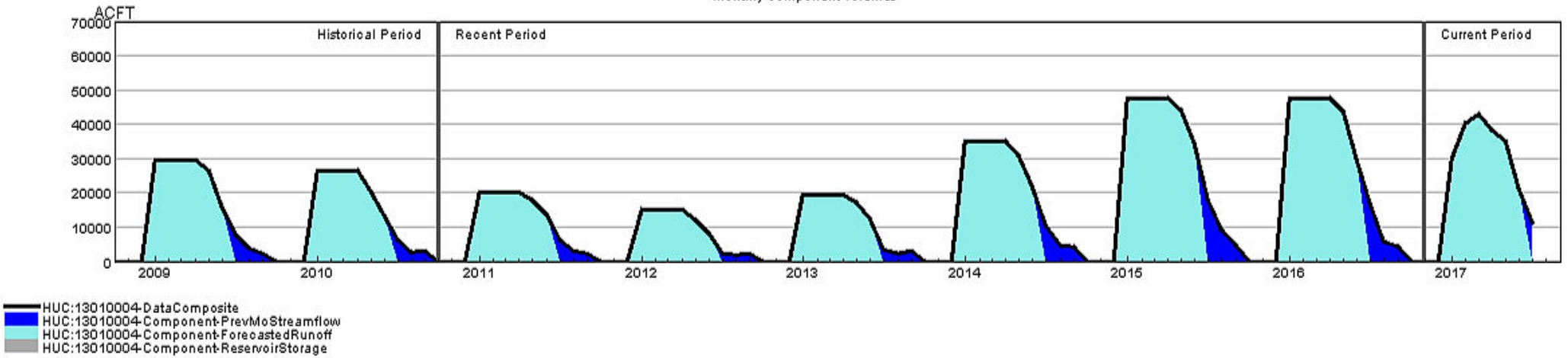
HUC 13010002 (Alamosa-Trinchera) SWSI

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



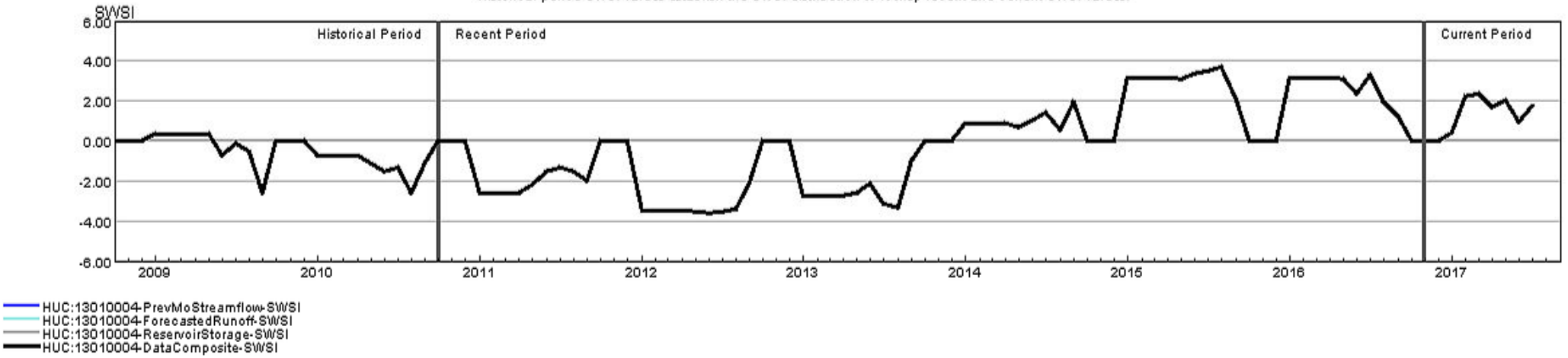
HUC 13010004 (Saguache) Surface Water Supply

Monthly component volumes



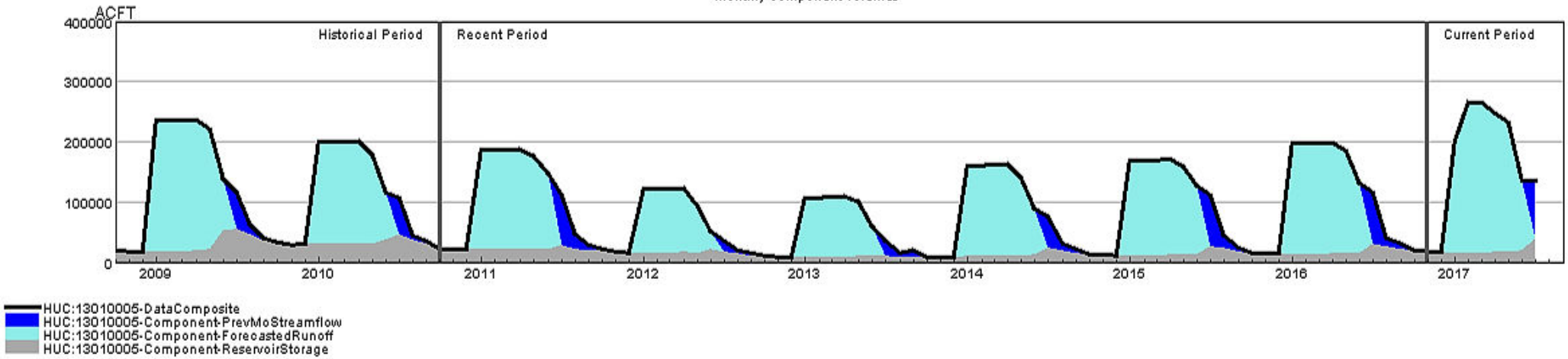
HUC 13010004 (Saguache) SWSI

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



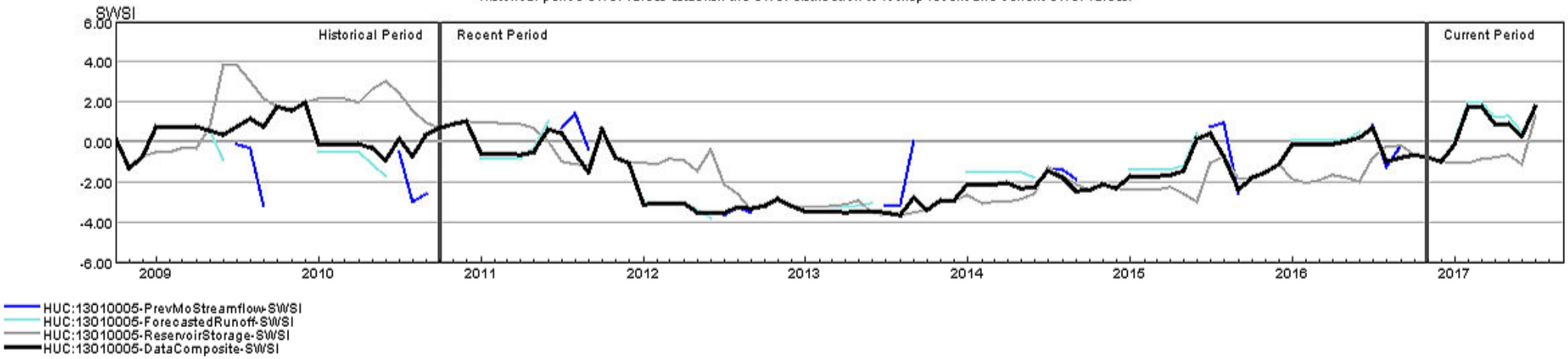
HUC 13010005 (Conejos) Surface Water Supply

Monthly component volumes



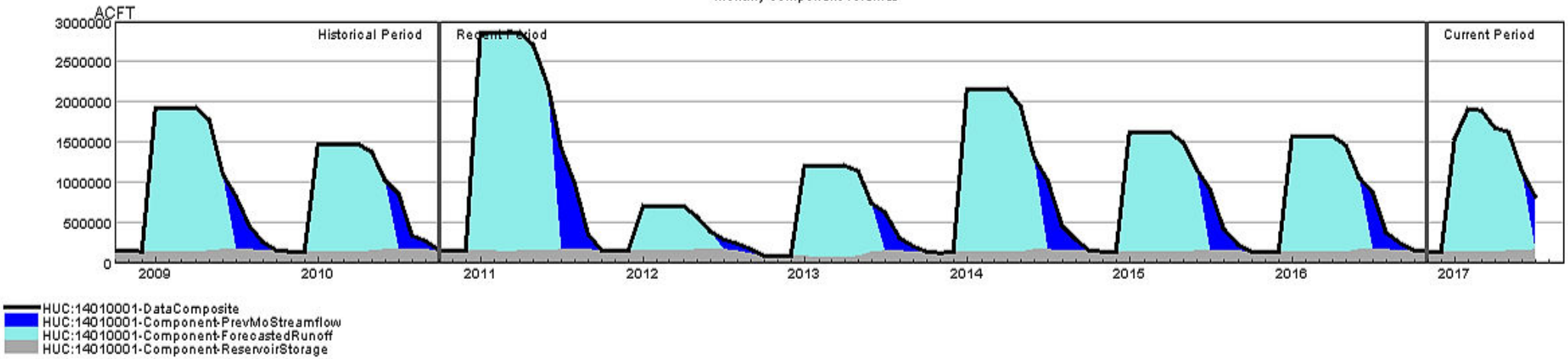
HUC 13010005 (Conejos) SWSI

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



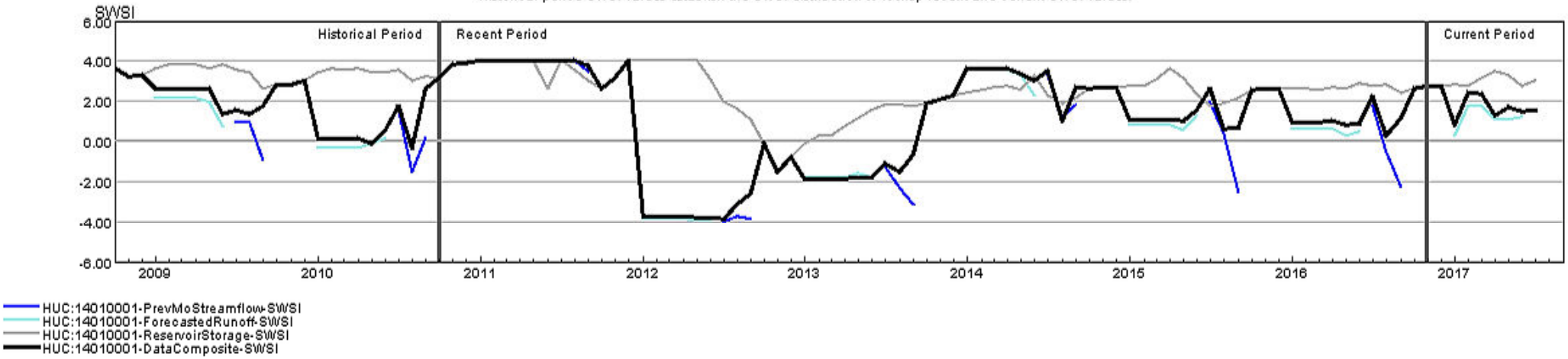
HUC 14010001 (Colorado Headwaters) Surface Water Supply

Monthly component volumes



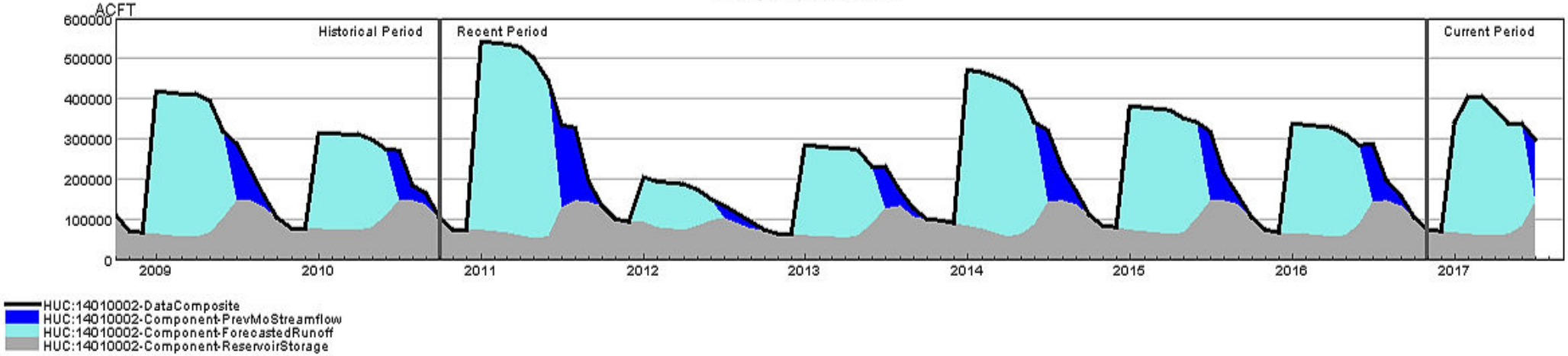
HUC 14010001 (Colorado Headwaters) SWSI

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



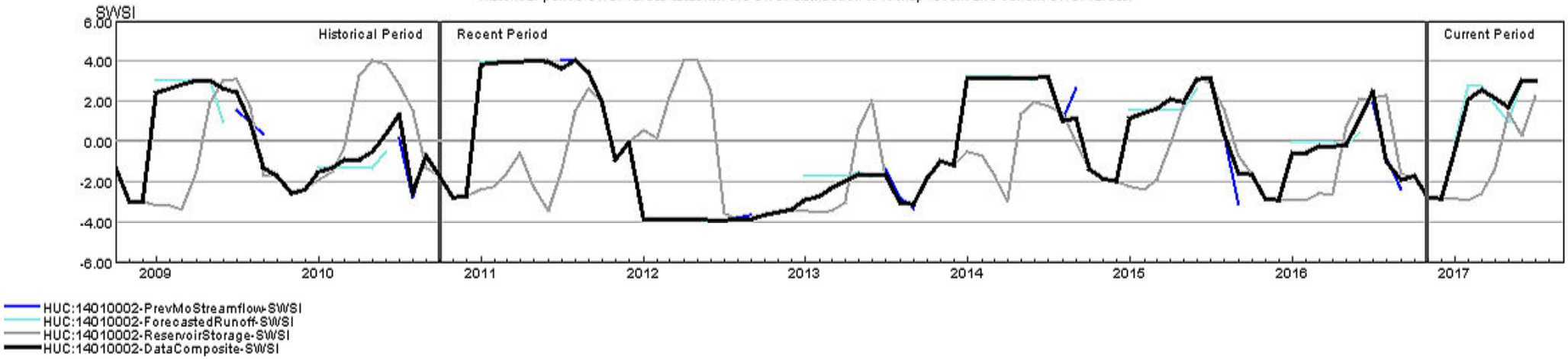
HUC 14010002 (Blue) Surface Water Supply

Monthly component volumes



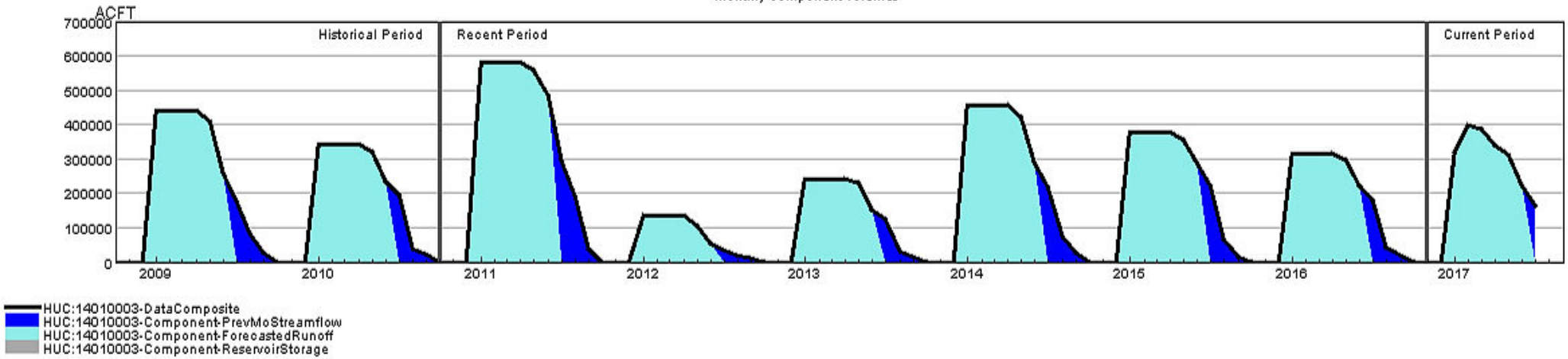
HUC 14010002 (Blue) SWSI

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



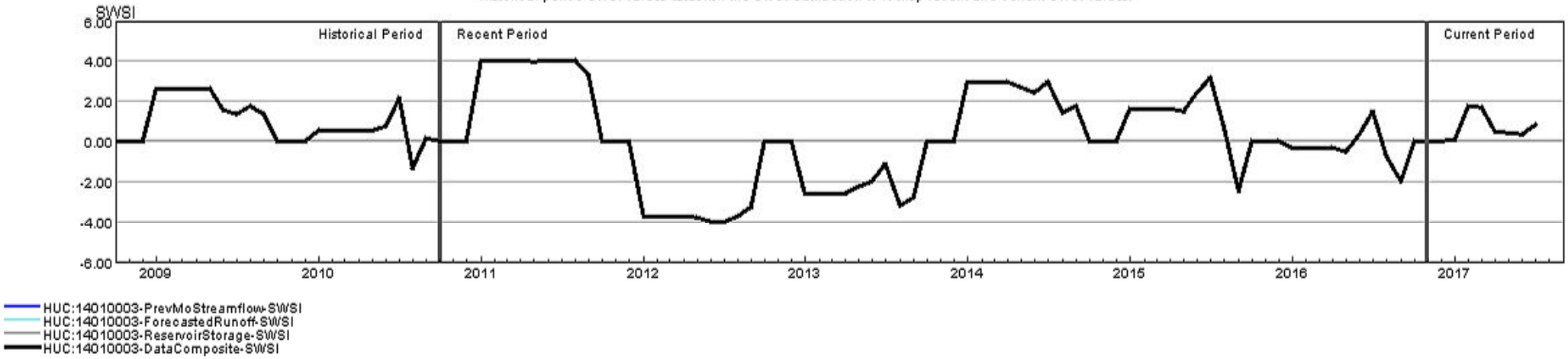
HUC 14010003 (Eagle) Surface Water Supply

Monthly component volumes



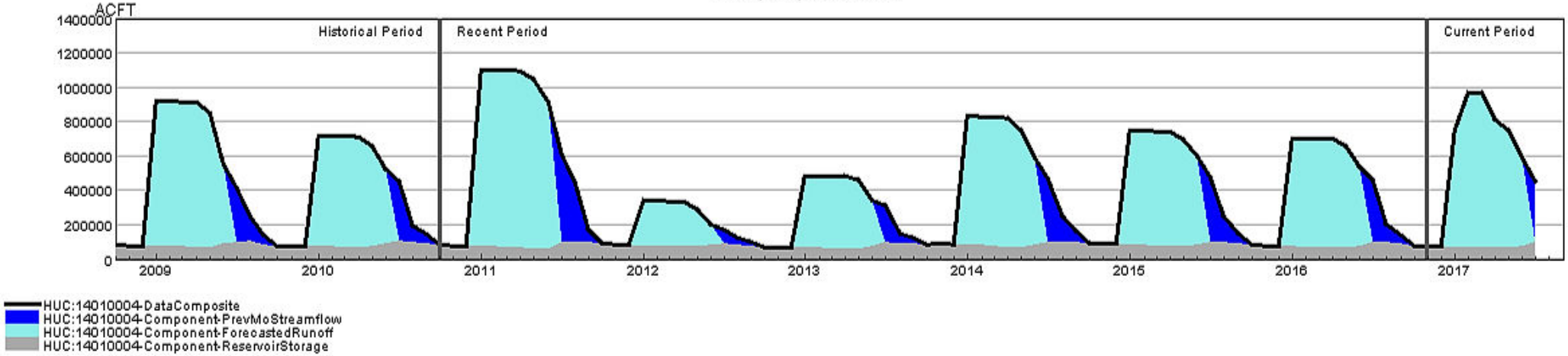
HUC 14010003 (Eagle) SWSI

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



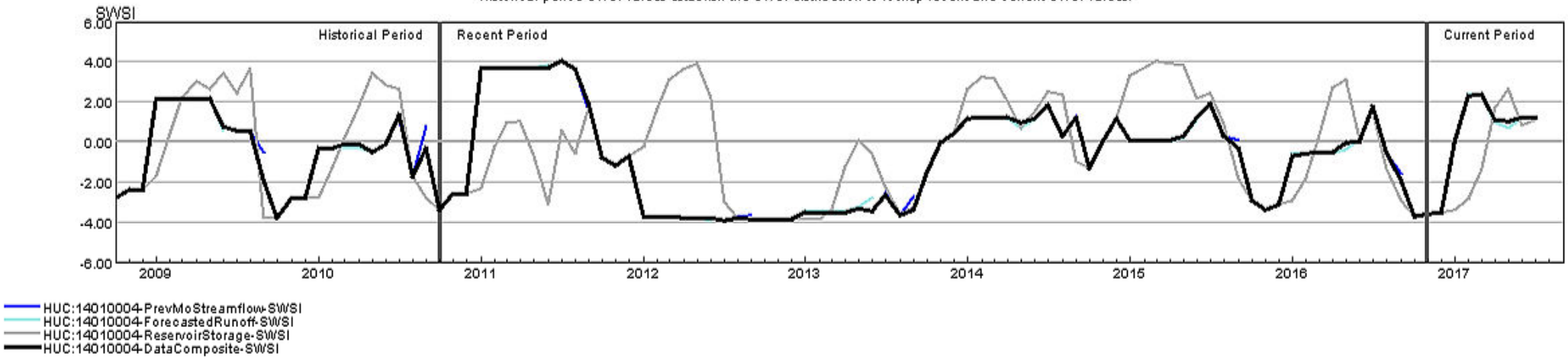
HUC 14010004 (Roaring Fork) Surface Water Supply

Monthly component volumes



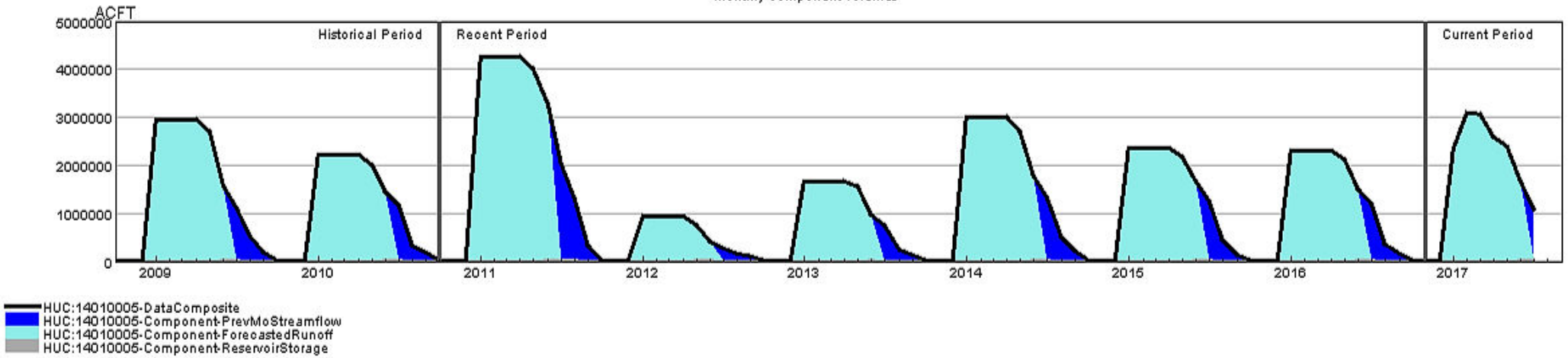
HUC 14010004 (Roaring Fork) SWSI

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



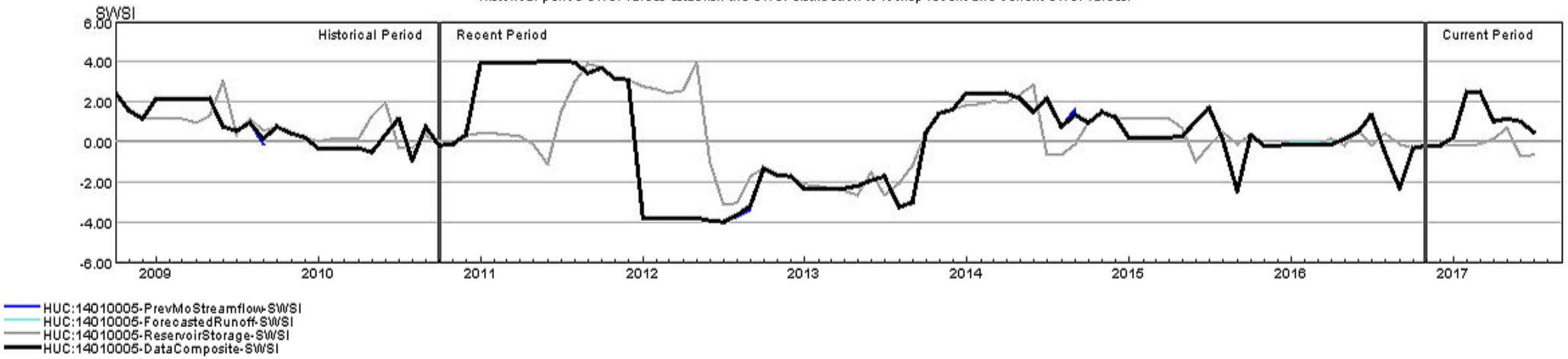
HUC 14010005 (Colorado Headwaters-Plateau) Surface Water Supply

Monthly component volumes



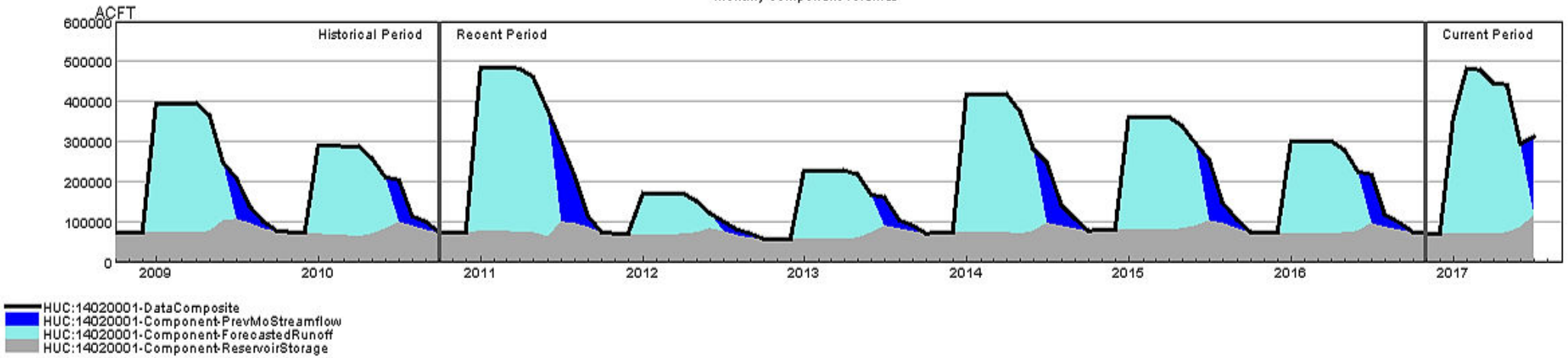
HUC 14010005 (Colorado Headwaters-Plateau) SWSI

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



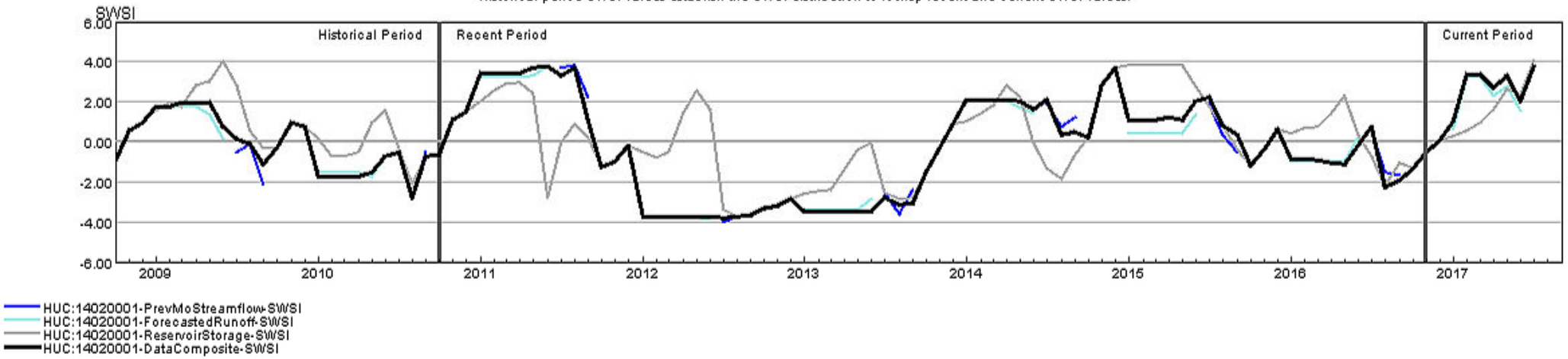
HUC 14020001 (East-Taylor) Surface Water Supply

Monthly component volumes



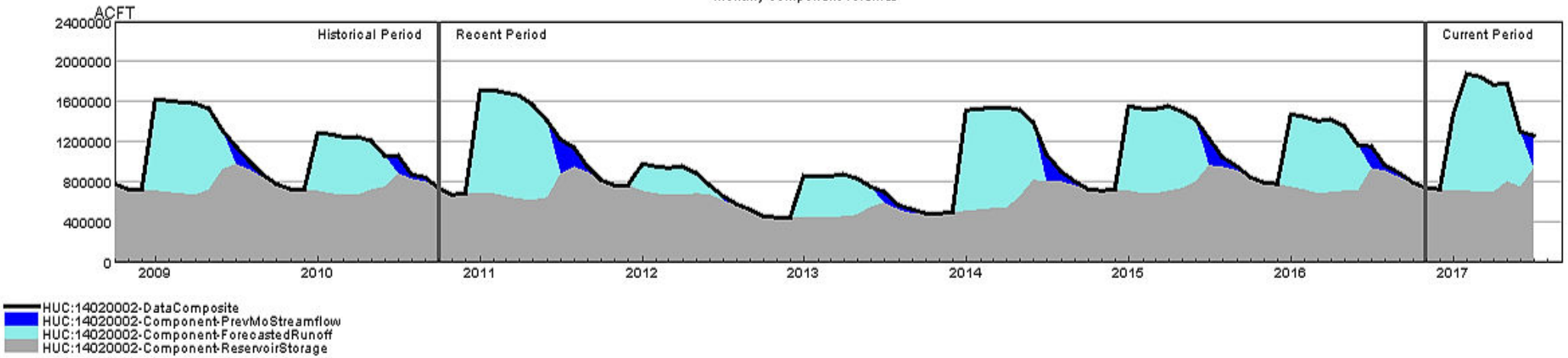
HUC 14020001 (East-Taylor) SWSI

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



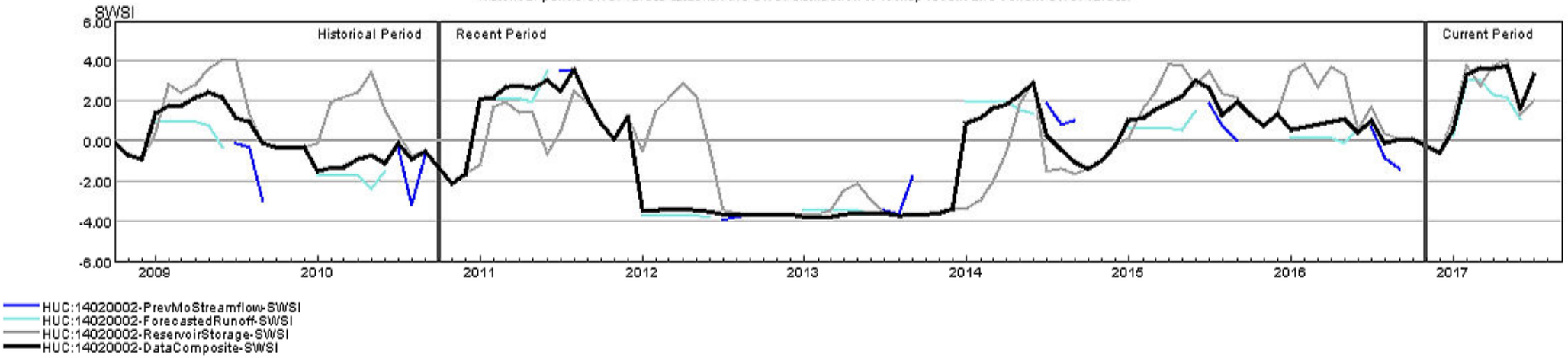
HUC 14020002 (Upper Gunnison) Surface Water Supply

Monthly component volumes



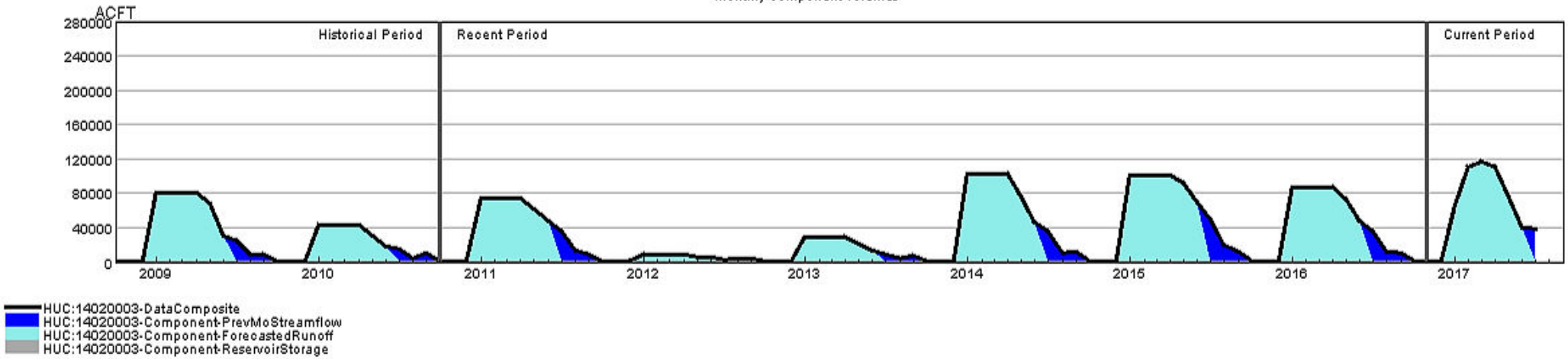
HUC 14020002 (Upper Gunnison) SWSI

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



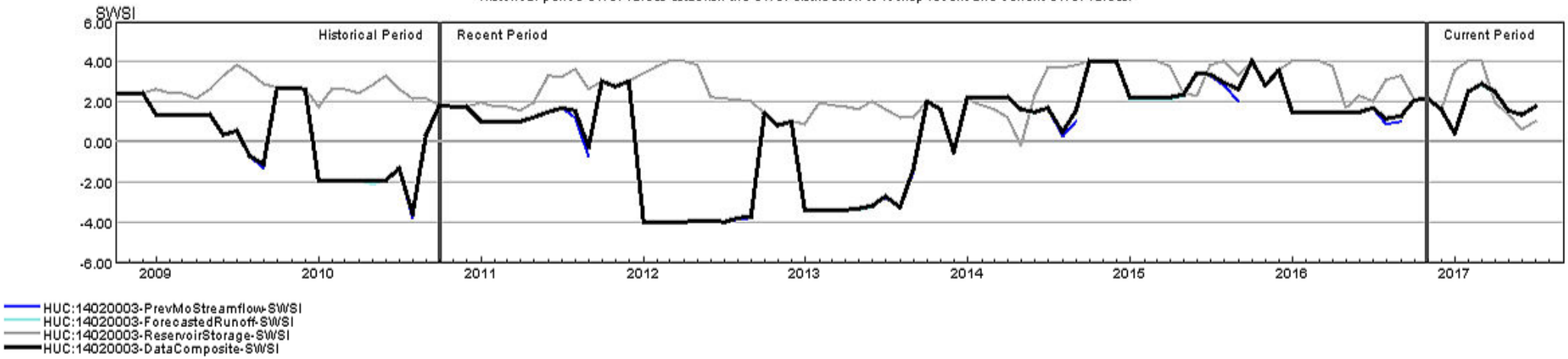
HUC 14020003 (Tomichi) Surface Water Supply

Monthly component volumes



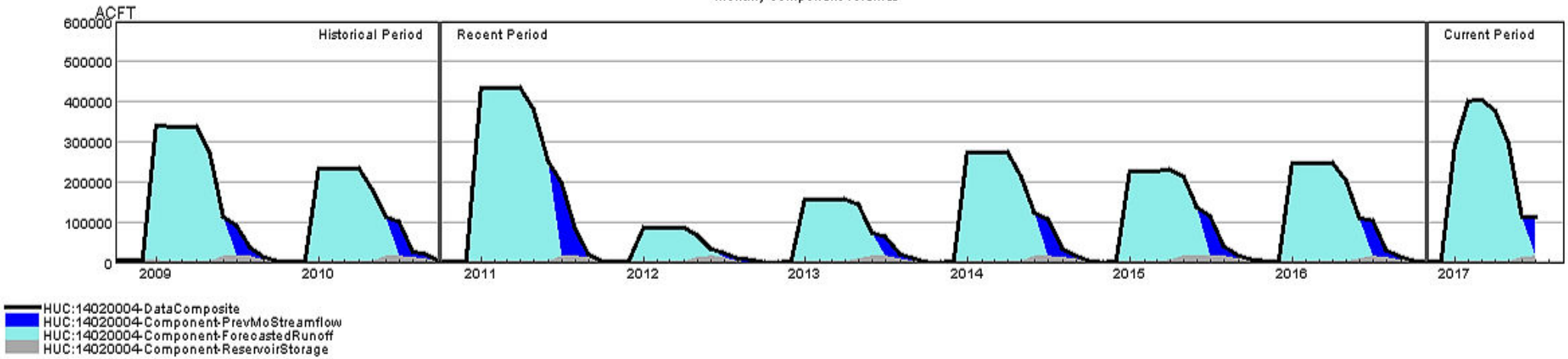
HUC 14020003 (Tomichi) SWSI

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



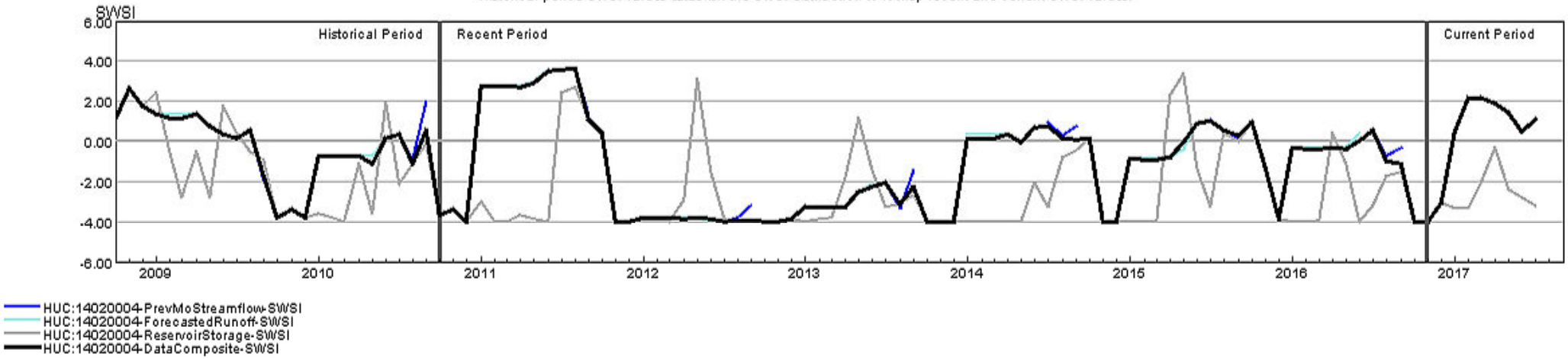
HUC 14020004 (North Fork Gunnison) Surface Water Supply

Monthly component volumes



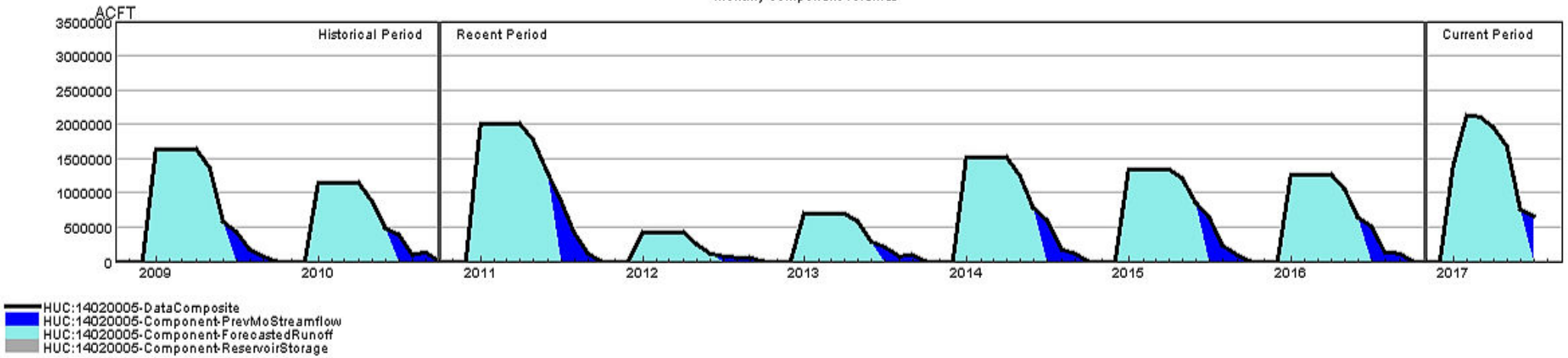
HUC 14020004 (North Fork Gunnison) SWSI

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



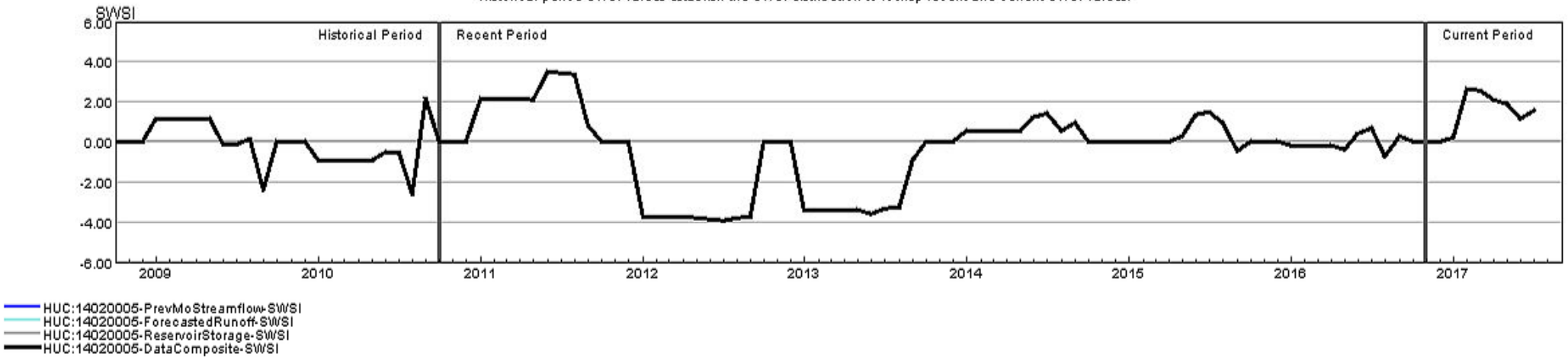
HUC 14020005 (Lower Gunnison) Surface Water Supply

Monthly component volumes



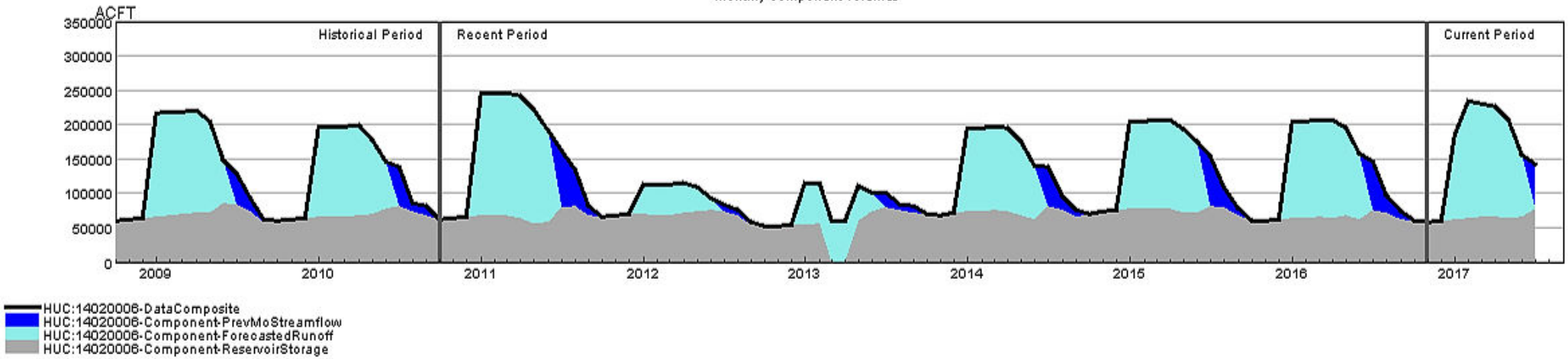
HUC 14020005 (Lower Gunnison) SWSI

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



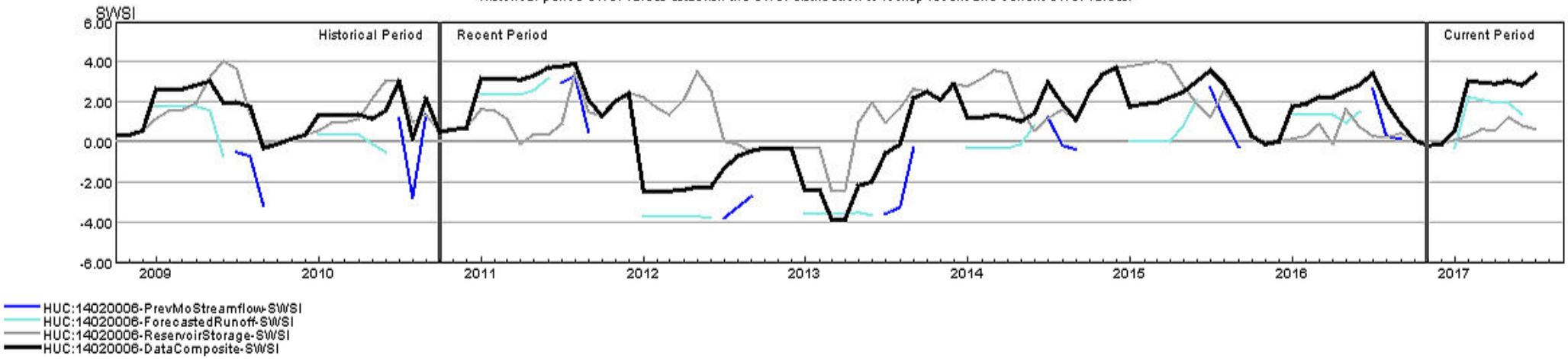
HUC 14020006 (Uncompahgre) Surface Water Supply

Monthly component volumes



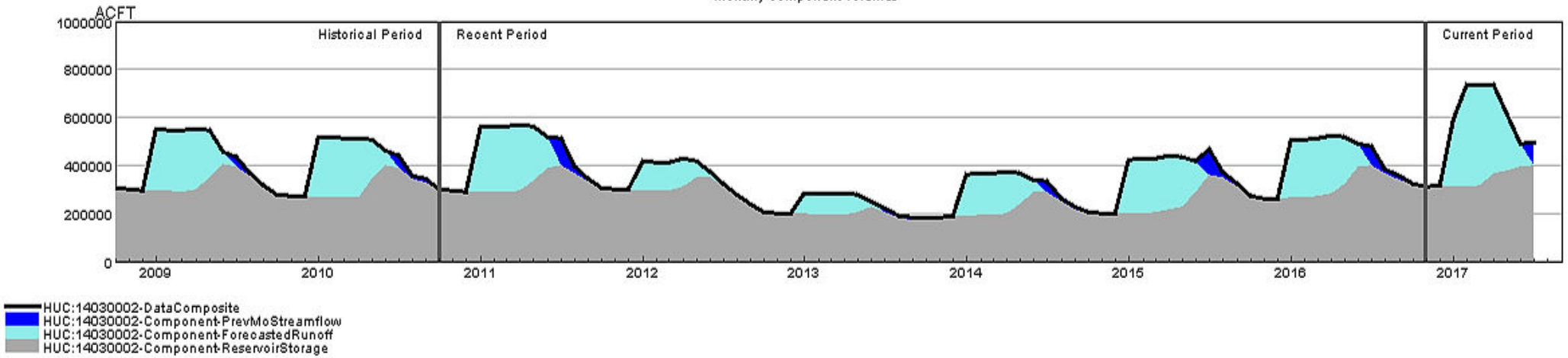
HUC 14020006 (Uncompahgre) SWSI

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



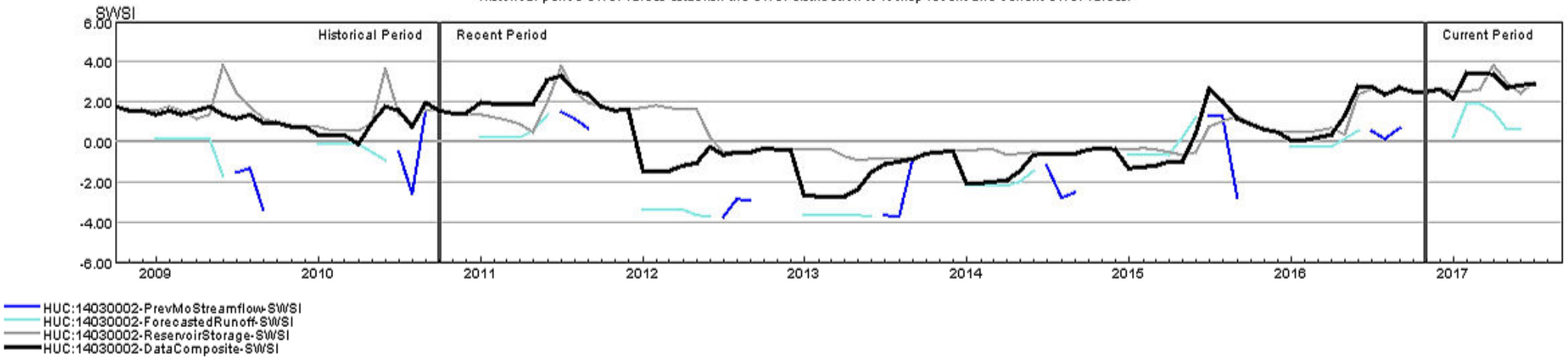
HUC 14030002 (Upper Dolores) Surface Water Supply

Monthly component volumes



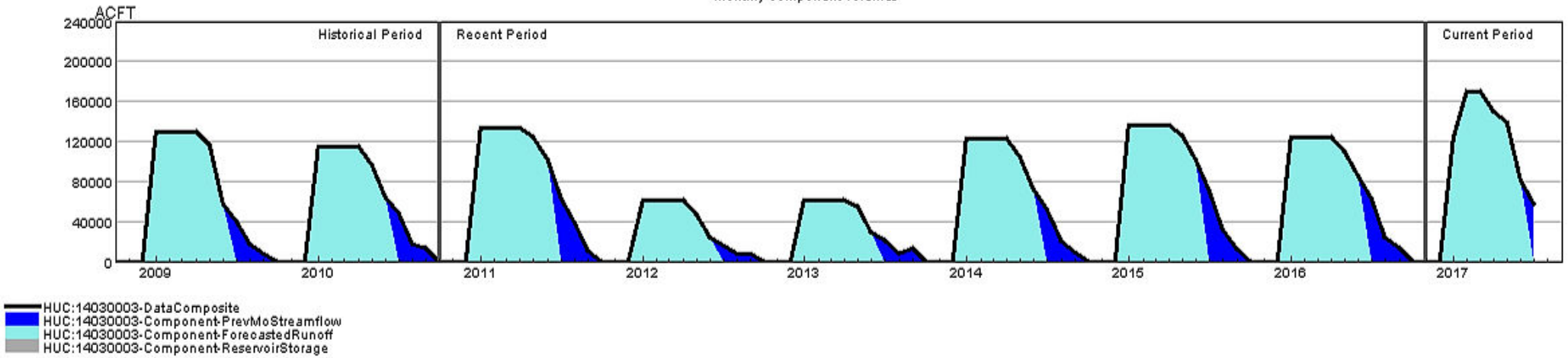
HUC 14030002 (Upper Dolores) SWSI

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



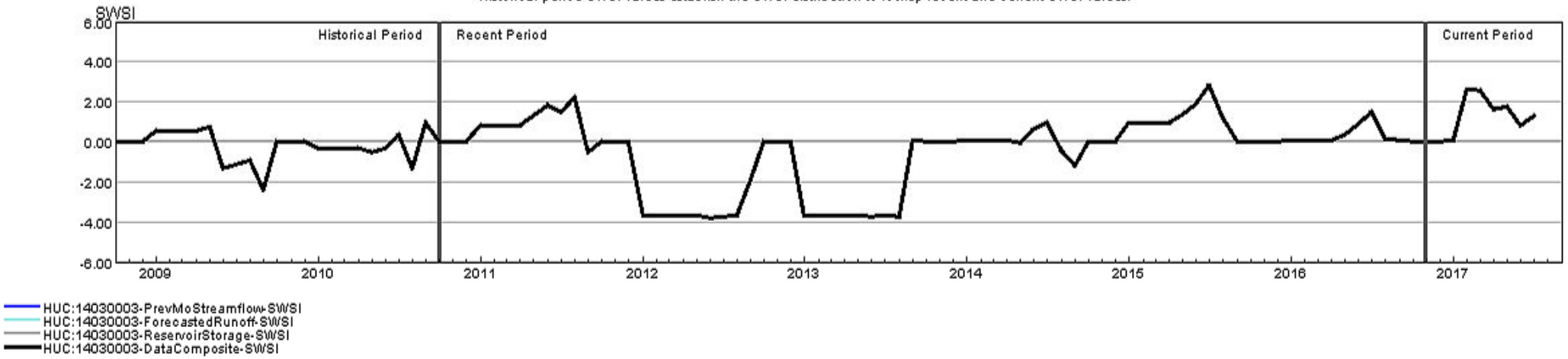
HUC 14030003 (San Miguel) Surface Water Supply

Monthly component volumes



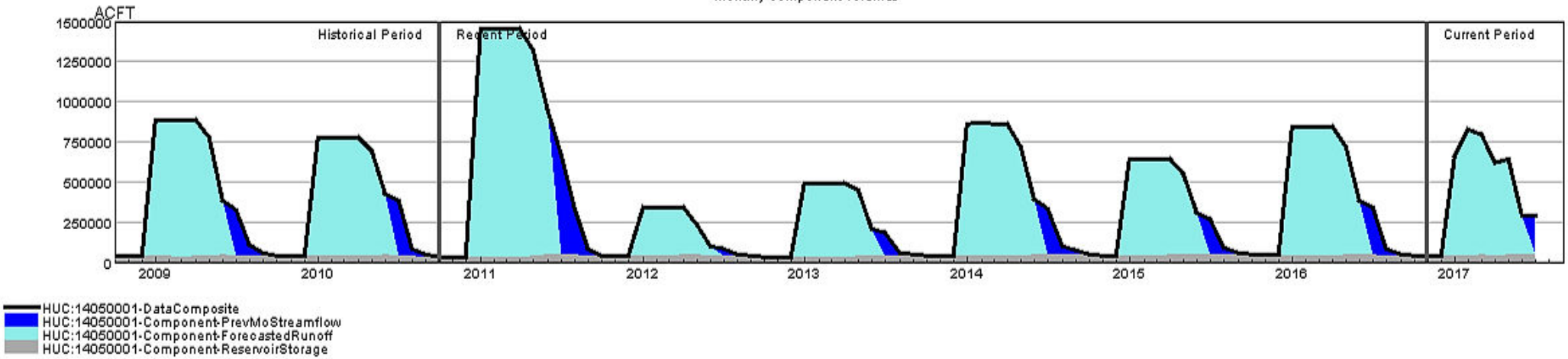
HUC 14030003 (San Miguel) SWSI

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



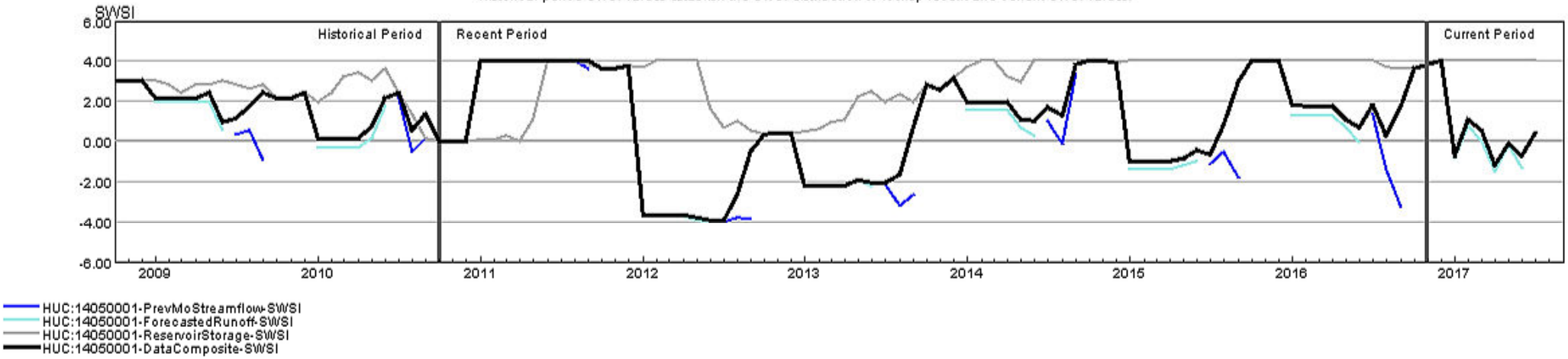
HUC 14050001 (Upper Yampa) Surface Water Supply

Monthly component volumes



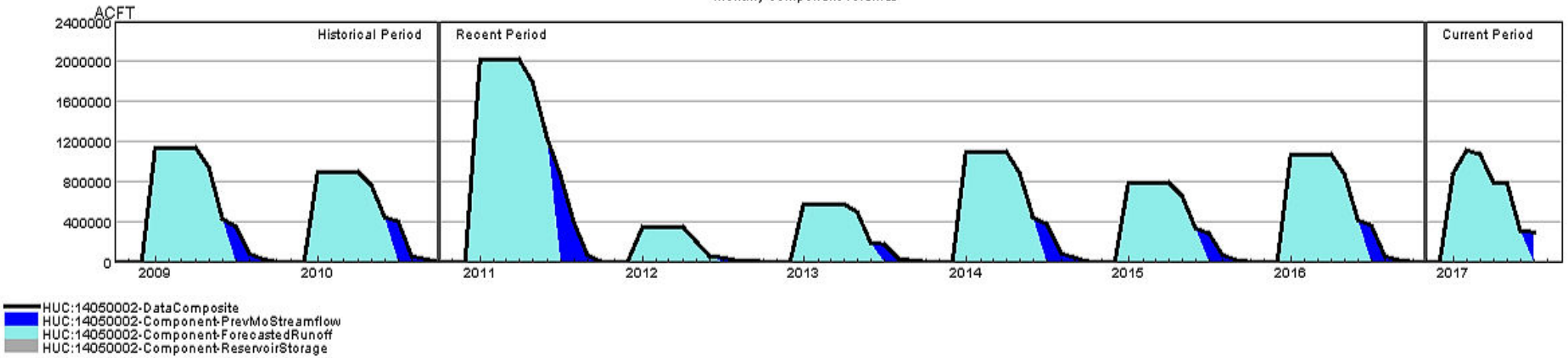
HUC 14050001 (Upper Yampa) SWSI

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



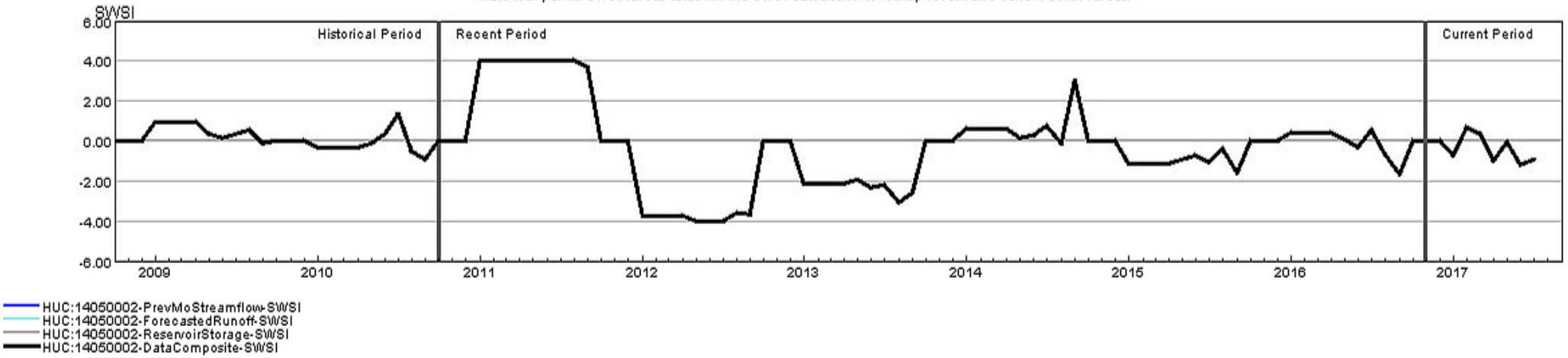
HUC 14050002 (Lower Yampa) Surface Water Supply

Monthly component volumes



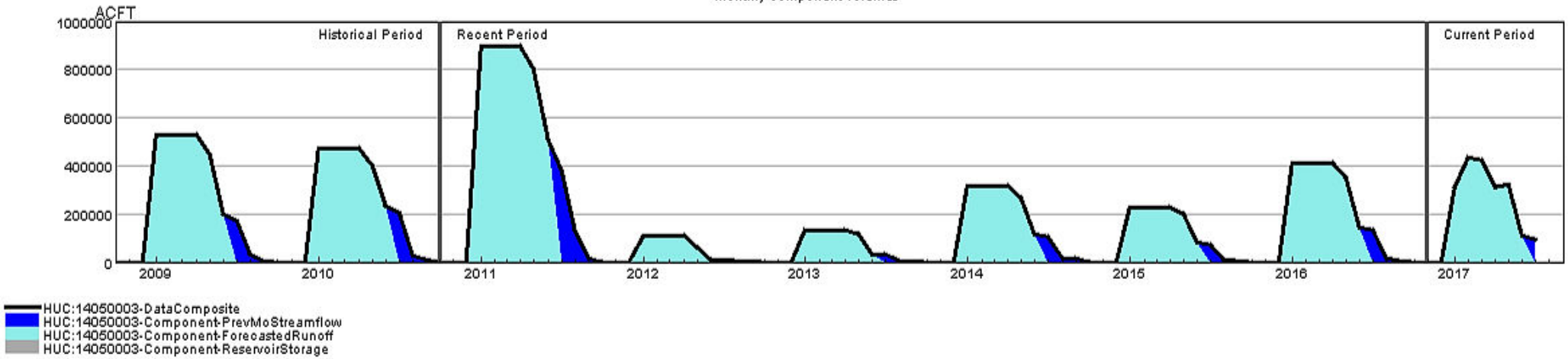
HUC 14050002 (Lower Yampa) SWSI

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



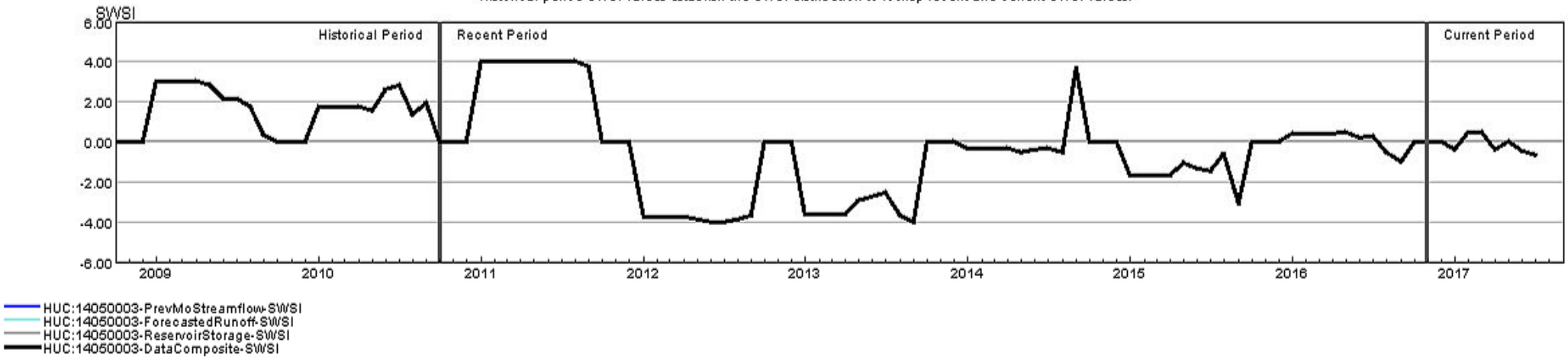
HUC 14050003 (Little Snake) Surface Water Supply

Monthly component volumes



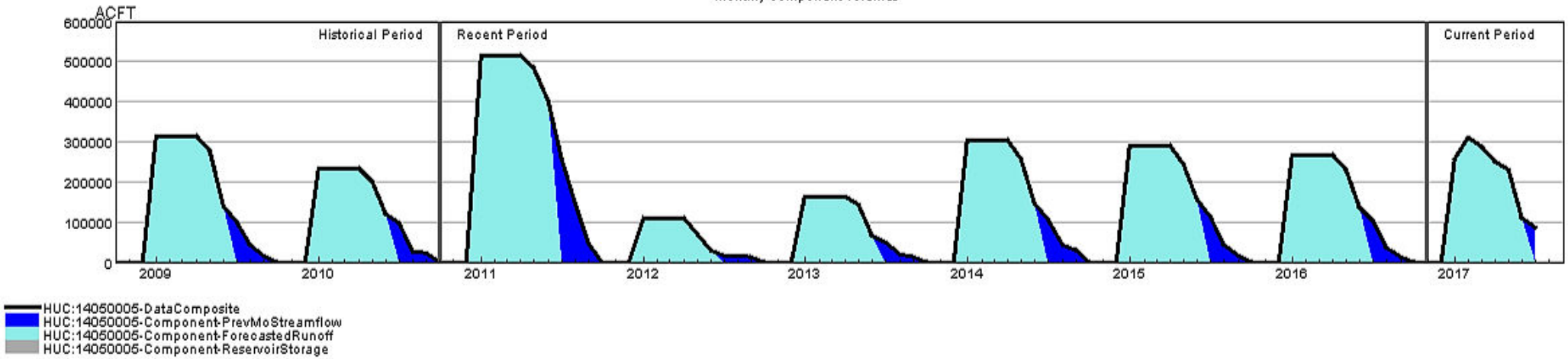
HUC 14050003 (Little Snake) SWSI

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



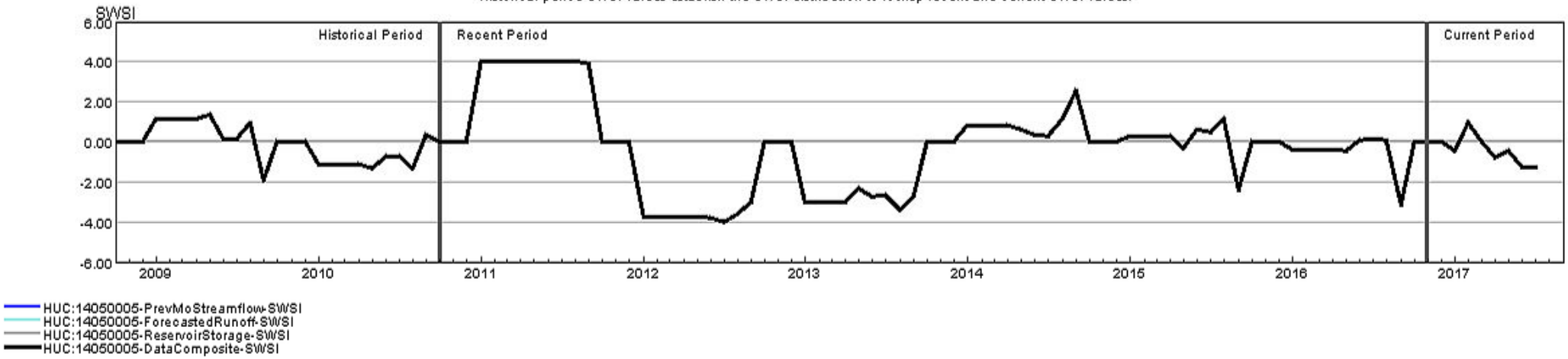
HUC 14050005 (Upper White) Surface Water Supply

Monthly component volumes



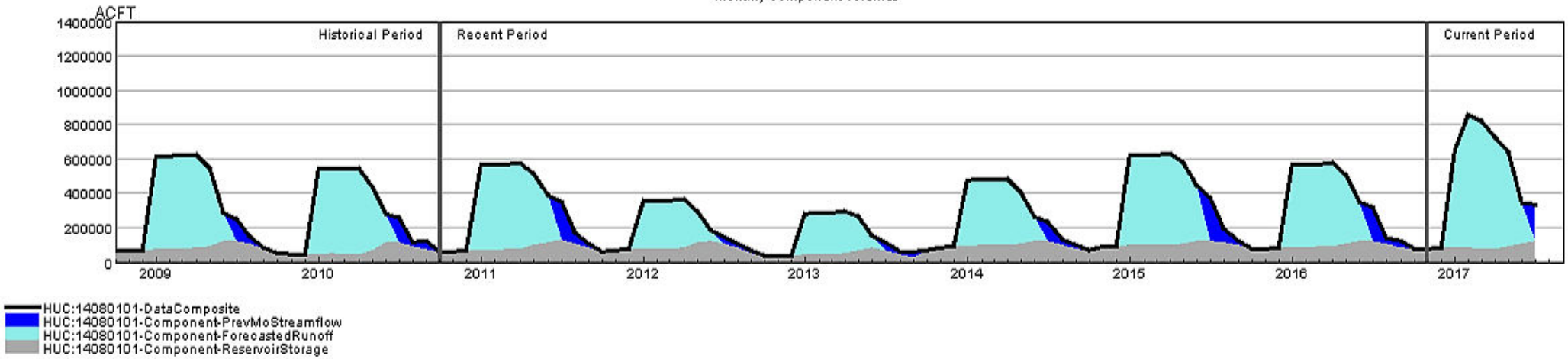
HUC 14050005 (Upper White) SWSI

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



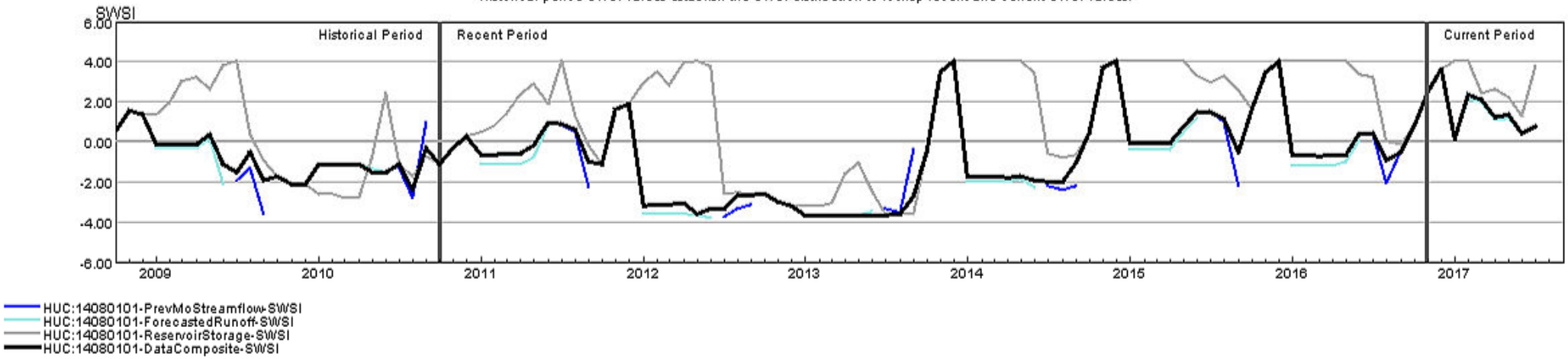
HUC 14080101 (Upper San Juan) Surface Water Supply

Monthly component volumes



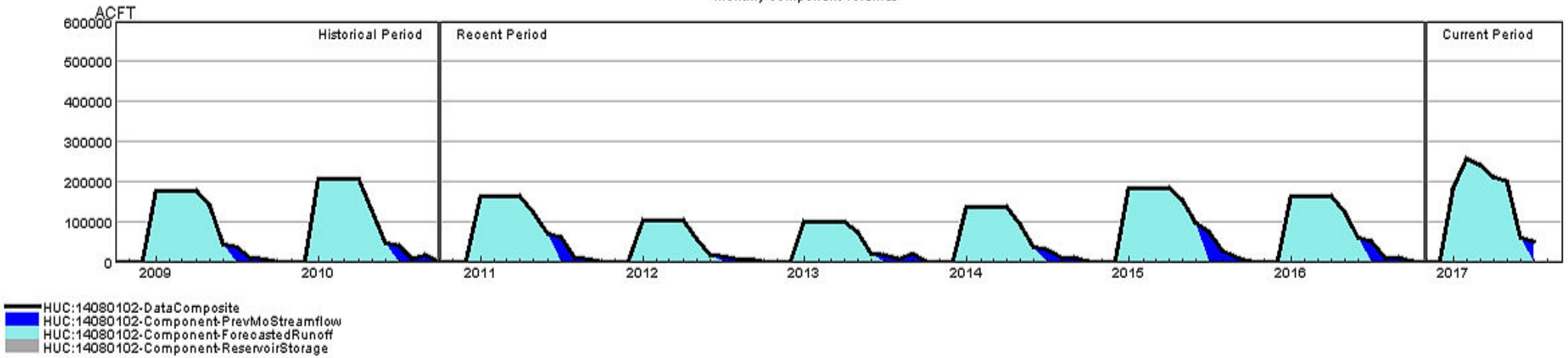
HUC 14080101 (Upper San Juan) SWSI

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



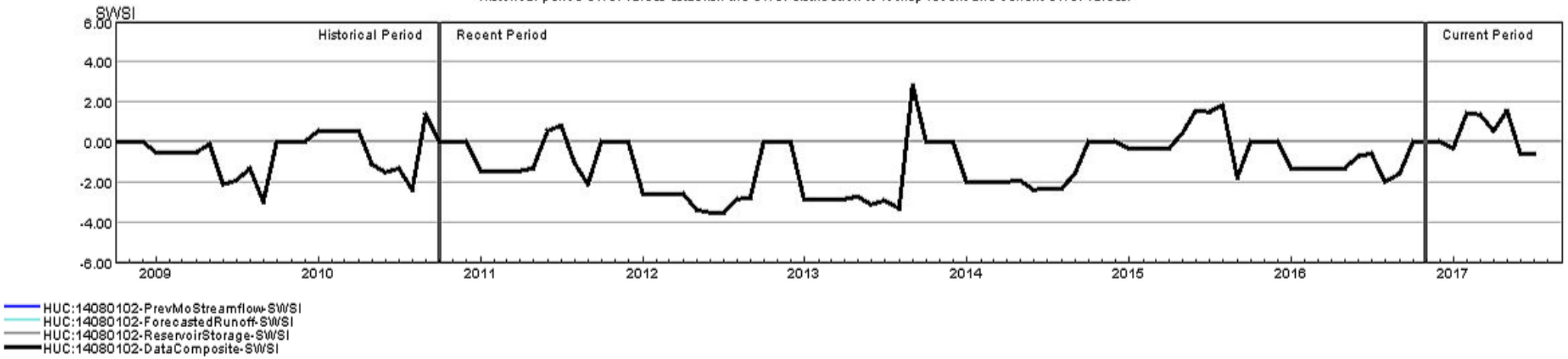
HUC 14080102 (Piedra) Surface Water Supply

Monthly component volumes



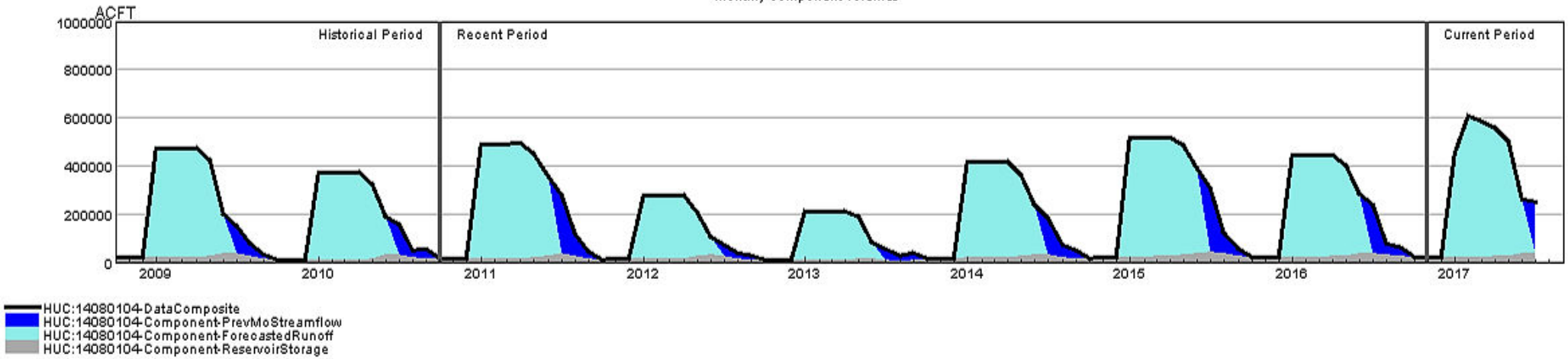
HUC 14080102 (Piedra) SWSI

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



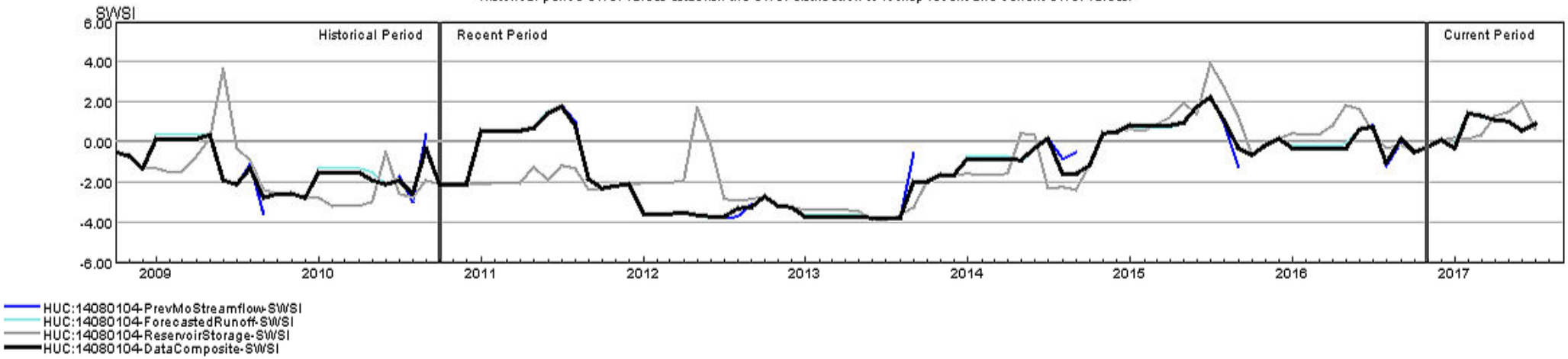
HUC 14080104 (Animas) Surface Water Supply

Monthly component volumes



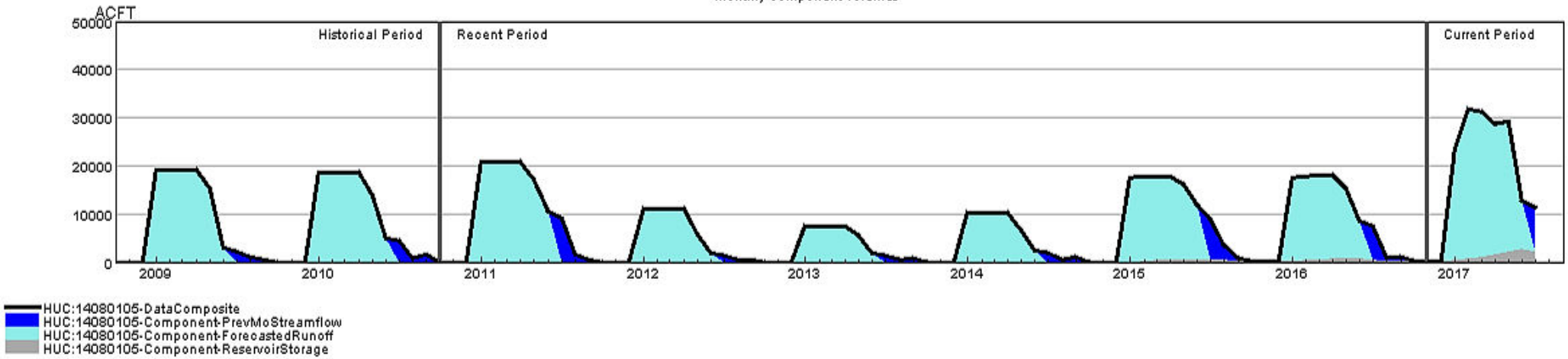
HUC 14080104 (Animas) SWSI

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



HUC 14080105 (Middle San Juan) Surface Water Supply

Monthly component volumes



HUC 14080105 (Middle San Juan) SWSI

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