COLORADO
WATER SUPPLY CONDITIONS UPDATE

FROM THE OFFICE OF THE STATE ENGINEER: COLORADO DIVISION OF WATER RESOURCES
ROOM 818, 1313 SHERMAN ST., DENVER, CO 80203
303-866-3581; www.water.state.co.us

May 1, 2021

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 1980 and 2020.

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: https://dwr.colorado.gov/services/water-administration/drought-and-swsi. This report also contains updates about current regional conditions and water matters prepared by each DWR Division Office.

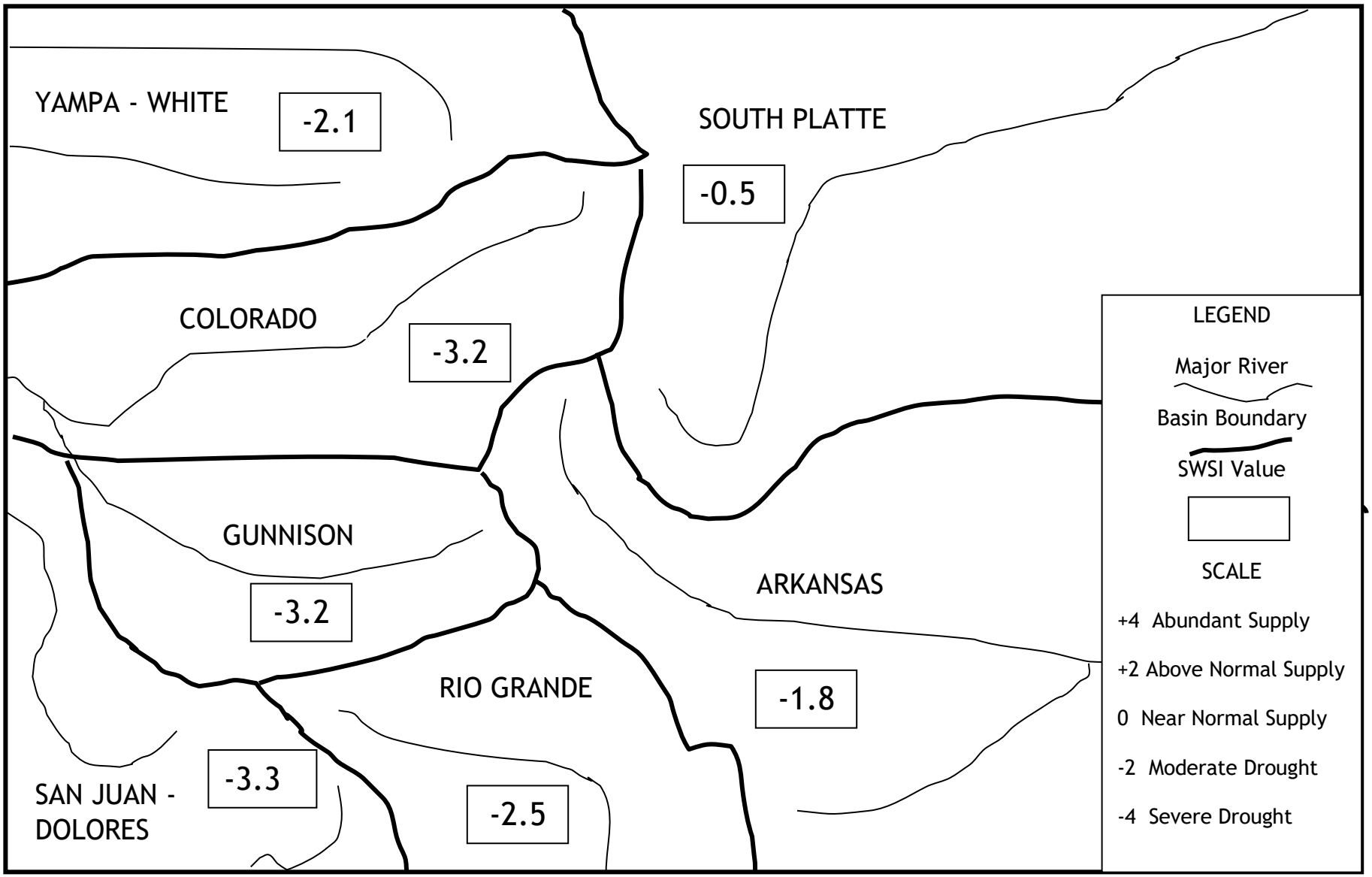
The SWSI calculation for the winter/spring season (January 1 to June 1) is based on reservoir storage at the end of last month, in this case April 30, plus the forecasted streamflow runoff volume for the runoff season (April through September in most basins). The following SWSI values were computed for each of the seven major basins for May 1, 2021. The following SWSI values were computed for each of the seven major basins for May 1, 2021. Water supply conditions, as represented by water in storage and forecasted streamflow runoff, range from below normal in the South Platte Basin to well below normal in the Colorado, San-Juan-Dolores and Gunnison River Basins.

Basin	May 1 SWSI	Change from Previous Month	Change from Previous Year
Arkansas	-1.8	-0.4	-0.6
Colorado	-3.2	-0.5	-1.8
Gunnison	-3.2	-0.2	-0.6
Rio Grande	-2.5	-1.0	0.5
San Juan-Dolores	-3.3	-0.1	-0.5
South Platte	-0.5	0.1	-0.4
Yampa-White	-2.1	-0.1	-1.2

SWSI Scale

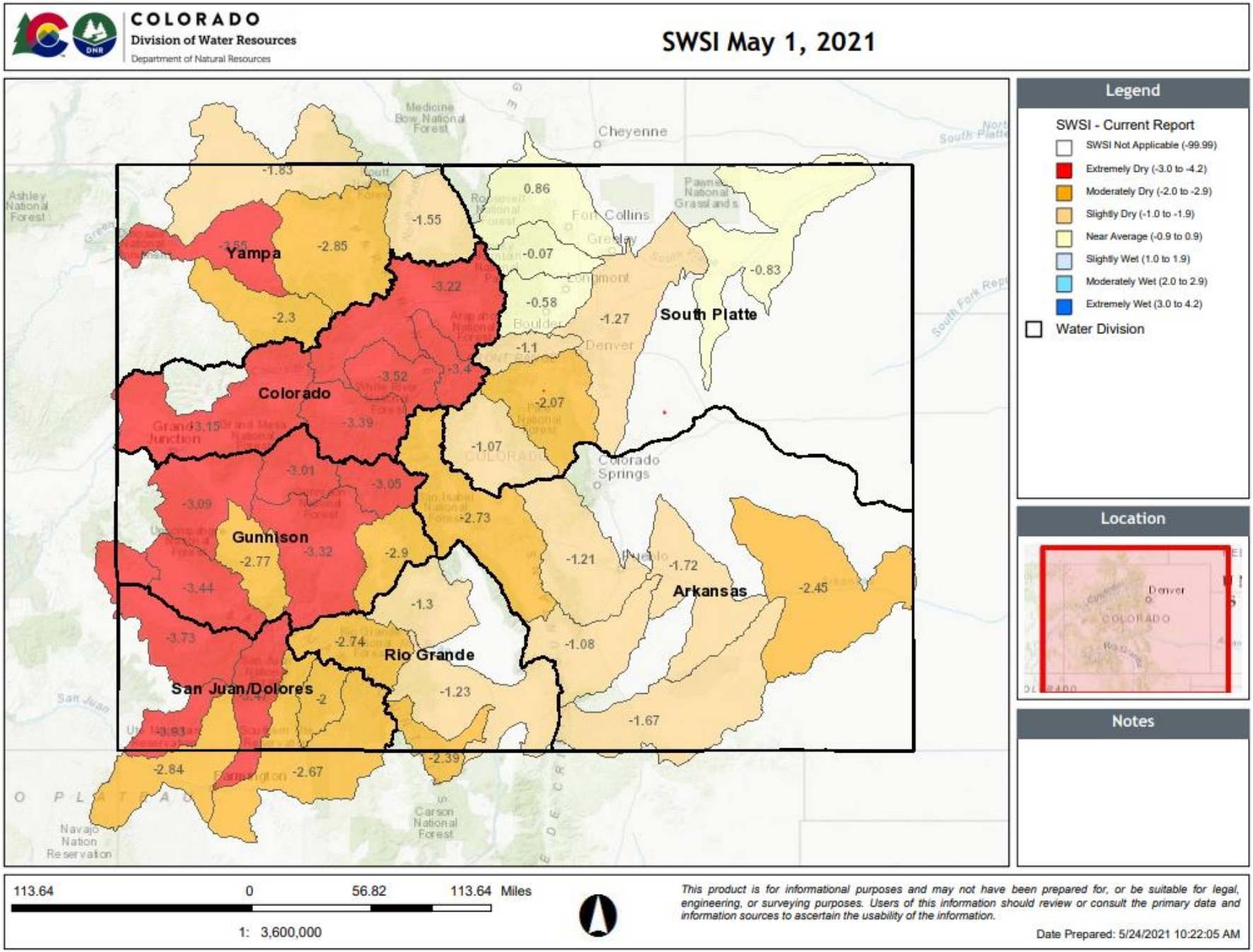
-4	-3	-2	-1	0	1	2	3	4
Severe Drought		Moderate Drought		Near Normal Supply		Above Normal Supply		Abundant Supply

SURFACE WATER SUPPLY INDEX FOR COLORADO BY MAJOR RIVER BASIN



May 1, 2020

SURFACE WATER SUPPLY INDEX FOR COLORADO BY HUC



May 1, 2021 SWSI Values by HUC and Non Exceedance Probabilities (NEP)

Basin	HUC ID	HUC Name	SWSI	Reservoir Storage NEP	Forecast Flow NEP	Total Vol (AF)
Arkansas	11020006	Huerfano	-1.08	16	48	19,200
	11020010	Purgatoire	-1.68	17	42	50,218
	11020005	Upper Arkansas-Lake Meredith	-1.72	28	24	276,444
	11020001	Arkansas Headwaters	-2.73	22	27	278,931
	11020009	Upper Arkansas-John Martin Reservoir	-2.46	29	29	369,984
	11020002	Upper Arkansas	-1.21	46	23	437,151
Colorado	14010003	Eagle	-3.52	N/A	8	167,000
	14010002	Blue	-3.40	13	10	197,285
	14010004	Roaring Fork	-3.39	23	11	434,307
	14010001	Colorado Headwaters	-3.22	60	11	878,870
	14010005	Colorado Headwaters-Plateau	-3.16	6	12	1,207,286
Gunnison	14020003	Tomichi	-2.90	48	15	23,604
	14030003	San Miguel	-3.45	N/A	9	53,000
	14020006	Uncompahgre	-2.77	36	16	114,759
	14020004	North Fork Gunnison	-3.01	75	14	133,153
	14020001	East-Taylor	-3.05	35	22	223,632
	14020005	Lower Gunnison	-3.10	N/A	13	570,000
	14020002	Upper Gunnison	-3.32	15	13	870,054
Rio Grande	13010004	Saguache	-1.30	N/A	34	19,000
	13010002	Alamosa-Trinchera	-1.24	29	34	91,419
	13010005	Conejos	-2.39	30	29	133,494
	13010001	Rio Grande Headwaters	-2.74	79	16	305,748
San Juan-Dolores	14080105	Middle San Juan	-2.85	88	14	7,743
	14080107	Mancos	-3.93	5	4	11,196
	14080102	Piedra	-2.01	N/A	26	87,000
	14080104	Animas	-3.48	12	9	200,742
	14030002	Upper Dolores	-3.74	13	11	262,994
	14080101	Upper San Juan	-2.68	20	27	339,602
South Platte	10190004	Clear	-1.11	N/A	37	89,000
	10190001	South Platte Headwater	-1.07	40	31	181,750
	10190005	St. Vrain	-0.59	33	44	201,026
	10190002	Upper South Platte	-2.08	22	36	371,877
	10190007	Cache La Poudre	0.86	72	47	394,302
	10190006	Big Thompson	-0.07	48	53	505,394
	10190003	Middle South Platte-Cherry Creek	-1.27	10	36	735,700
	10190012	Middle South Platte-Sterling	-0.84	68	36	876,791
Yampa-White	10180001	North Platte Headwaters	-1.55	N/A	31	120,000
	14050005	Upper White	-2.30	N/A	22	136,000
	14050003	Little Snake	-1.84	N/A	28	148,000
	14050001	Upper Yampa	-2.85	62	9	354,685
	14050002	Lower Yampa	-3.55	N/A	7	365,000

NEP is non exceedance probability for total reservoir storage and streamflow forecast in HUC. Some HUCs do not have any reservoirs considered in the SWSI and are shown as "N/A". Total Vol is the volume of reservoir storage in the HUC plus the streamflow forecast. NEP is calculated compared to the volume historically occurring this month during the period 1980-2020. The following table lists each component considered in each HUC.

SWSI Color Scale:	-4.0 (Severe Drought)	0.0 (Normal)	4.0 (Abundant Supply)

May 1, 2021 SWSI Component Information – Streamflow Forecast & Reservoir Storage - By HUC

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP by Month
11020001	Arkansas Headwaters	CLEAR CREEK RESERVOIR	6,373	29
		HOMESTAKE RESERVOIR	12,090	23
		TWIN LAKES RESERVOIR	26,743	13
		TURQUOISE LAKE	59,725	41
		ARKANSAS RIVER AT SALIDA	174,000	27
11020006	Huerfano	CUCHARAS RESERVOIR*	0	16
		HUERFANO RIVER NEAR REDWING	9,300	37
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	9,900	54
11020010	Purgatoire	TRINIDAD LAKE	18,218	17
		PURGATOIRE RIVER AT TRINIDAD	32,000	42
11020002	Upper Arkansas	PUEBLO RESERVOIR	207,151	46
		PUEBLO RESERVOIR INFLOW	230,000	23
11020009	Upper Arkansas-John Martin Reservoir	HUERFANO RIVER NEAR REDWING	9,300	37
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	9,900	54
		ADOBE CREEK RESERVOIR	26,097	18
		PURGATOIRE RIVER AT TRINIDAD	32,000	42
		JOHN MARTIN RESERVOIR	62,687	33
		PUEBLO RESERVOIR INFLOW	230,000	23
11020005	Upper Arkansas-Lake Meredith	LAKE HENRY	6,975	52
		HUERFANO RIVER NEAR REDWING	9,300	37
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	9,900	54
		MEREDITH RESERVOIR	20,269	27
		PUEBLO RESERVOIR INFLOW	230,000	23
14010002	Blue	GREEN MOUNTAIN RESERVOIR	47,285	13
		BLUE RIVER INFLOW TO GREEN MOUNTAIN RES	150,000	10
14010001	Colorado Headwaters	WOLFORD MOUNTAIN RESERVOIR	52,870	70
		WILLIAMS FORK RESERVOIR	61,000	39
		COLORADO RIVER NEAR DOTSERO	765,000	11
14010005	Colorado Headwaters-Plateau	VEGA RESERVOIR	7,286	6
		COLORADO RIVER NEAR CAMEO	1,200,000	12
14010003	Eagle	EAGLE RIVER BELOW GYPSUM	167,000	8
14010004	Roaring Fork	RUEDI RESERVOIR	59,307	23
		ROARING FORK AT GLENWOOD SPRINGS	375,000	11
14020001	East-Taylor	TAYLOR R INF TO TAYLOR PARK RESERVOIR	55,000	14
		TAYLOR PARK RESERVOIR	63,632	35
		EAST RIVER AT ALMONT	105,000	26
14020005	Lower Gunnison	GUNNISON RIVER NR GRAND JUNCTION	570,000	13
14020004	North Fork Gunnison	PAONIA RESERVOIR	10,153	75
		NORTH FORK GUNNISON R NR SOMERSET	123,000	14
14030003	San Miguel	SAN MIGUEL RIVER NEAR PLACERVILLE	53,000	9
14020003	Tomichi	VOUGA RESERVOIR NEAR DOYLEVILLE	604	48
		TOMICHI CREEK AT GUNNISON, CO	23,000	15

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP by Month
14020006	Uncompahgre	UNCOMPAHGRE RIVER AT COLONA	57,000	16
		RIDGEWAY RESERVOIR	57,759	36
14020002	Upper Gunnison	SILVER JACK RESERVOIR	2,369	2
		FRUITLAND RESERVOIR	2,600	6
		CRAWFORD RESERVOIR	5,246	8
		LAKE FORK AT GATEVIEW, CO	62,000	11
		MORROW POINT RESERVOIR	102,622	1
		GUNNISON R INF TO BLUE MESA RESERVOIR	330,000	14
		BLUE MESA RESERVOIR	365,217	19
13010002	Alamosa-Trinchera	MOUNTAIN HOME	2,980	29
		TERRACE RESERVOIR	7,439	32
		SANGRE DE CRISTO	8,000	42
		TRINCHERA CK	8,300	39
		UTE CREEK	8,700	31
		CULEBRA CREEK AT SAN LUIS	16,000	50
		ALAMOSA CREEK ABOVE TERRACE RESERVOIR	40,000	26
13010005	Conejos	PLATORO RESERVOIR	14,494	30
		CONEJOS RIVER NEAR MOGOTE	119,000	29
13010001	Rio Grande Headwaters	CONTINENTAL RESERVOIR	11,160	80
		SANTA MARIA RESERVOIR	13,048	66
		RIO GRANDE RESERVOIR	21,540	55
		RIO GRANDE NEAR DEL NORTE	260,000	16
13010004	Saguache	SAGUACHE CREEK NEAR SAGUACHE, CO	19,000	34
14080104	Animas	LEMON RESERVOIR	13,242	12
		FLORIDA RIVER INFLOW TO LEMON RESERVOIR	19,500	7
		ANIMAS RIVER AT DURANGO	168,000	9
14080107	Mancos	JACKSON GULCH RESERVOIR	3,696	5
		MANCOS RIVER NEAR MANCOS	7,500	4
14080105	Middle San Juan	LONG HOLLOW RESERVOIR	743	88
		LA PLATA RIVER AT HESPERUS	7,000	14
14080102	Piedra	PIEDRA RIVER NEAR ARBOLES	87,000	26
14030002	Upper Dolores	GROUNDHOG RESERVOIR	5,600	5
		DOLORES RIVER BELOW MCPHEE RESERVOIR	81,000	11
		MCPHEE RESERVOIR	176,394	13
14080101	Upper San Juan	VALLECITO RESERVOIR	56,602	20
		LOS PINOS RIVER NEAR BAYFIELD	78,000	9
		SAN JUAN RIVER NEAR CARRACAS	205,000	33
10190006	Big Thompson	MARIANO RESERVOIR	3,100	9
		LAKE LOVELAND RESERVOIR	5,000	12
		WILLOW CREEK RESERVOIR	5,523	9
		LONE TREE RESERVOIR	6,200	1
		BOYD LAKE	29,600	39
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	82,000	53
		CARTER LAKE	98,768	33
		LAKE GRANBY	275,203	53

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP by Month
10190007	Cache La Poudre	BLACK HOLLOW RESERVOIR	3,800	86
		CHAMBERS LAKE	4,700	67
		HALLIGAN RESERVOIR	6,400	79
		CACHE LA POUDRE	9,200	40
		FOSSIL CREEK RESERVOIR	9,300	48
		WINDSOR RESERVOIR	12,100	29
		COBB LAKE	15,900	59
		HORSETOOTH RESERVOIR	132,902	72
		CACHE LA POUDRE R AT CANYON MOUTH	200,000	47
10190004	Clear Creek	CLEAR CREEK AT GOLDEN	89,000	37
10190003	Middle South Platte-Cherry Creek	HORSECREEK RESERVOIR	6,500	3
		MILTON RESERVOIR	20,900	39
		BARR LAKE	29,000	52
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	32,000	45
		STANDLEY RESERVOIR	32,300	21
		BOULDER CREEK NEAR ORODELL	47,000	42
		SAINT VRAIN CREEK AT LYONS	78,000	44
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	82,000	53
		CLEAR CREEK AT GOLDEN	89,000	37
		SOUTH PLATTE RIVER AT SOUTH PLATTE	119,000	36
		CACHE LA POUDRE R AT CANYON MOUTH	200,000	47
10190012	Middle South Platte-Sterling	JULESBURG RESERVOIR	20,500	60
		PREWITT RESERVOIR	25,100	93
		JACKSON LAKE RESERVOIR	26,057	60
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	32,000	45
		EMPIRE RESERVOIR	32,600	38
		BOULDER CREEK NEAR ORODELL	47,000	42
		RIVERSIDE RESERVOIR	55,234	76
		POINT OF ROCKS RESERVOIR	70,300	79
		SAINT VRAIN CREEK AT LYONS	78,000	44
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	82,000	53
		CLEAR CREEK AT GOLDEN	89,000	37
		SOUTH PLATTE RIVER AT SOUTH PLATTE	119,000	36
		CACHE LA POUDRE R AT CANYON MOUTH	200,000	47
10190001	South Platte Headwater	ANTERO RESERVOIR	19,881	67
		SPINNEY MOUNTAIN RESERVOIR	26,700	41
		ELEVENMILE CANYON RESV INFLOW	38,000	31
		ELEVENMILE CANYON RESERVOIR	97,169	13
10190005	St. Vrain	GROSS RESERVOIR	6,800	43
		TERRY RESERVOIR	7,300	86
		MARSHALL RESERVOIR	7,500	29
		UNION RESERVOIR	8,026	11
		BUTTONROCK (RALPH PRICE) RESERVOIR	14,400	80
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	32,000	45
		BOULDER CREEK NEAR ORODELL	47,000	42
		SAINT VRAIN CREEK AT LYONS	78,000	44

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP by Month
10190002	Upper South Platte	CHEESMAN LAKE	54,977	10
		SOUTH PLATTE RIVER AT SOUTH PLATTE	119,000	36
		DILLON RESERVOIR	197,900	32
14050003	Little Snake	LITTLE SNAKE RIVER NEAR LILY	148,000	28
14050002	Lower Yampa	YAMPA RIVER NEAR MAYBELL	365,000	7
10180001	North Platte Headwaters	NORTH PLATTE R NR NORTHGATE	120,000	31
14050005	Upper White	WHITE RIVER NEAR MEEKER	136,000	22
14050001	Upper Yampa	YAMCOLO RESERVOIR	5,685	10
		ELKHEAD CREEK ABOVE LONG GULCH	19,000	19
		STAGECOACH RESERVOIR NR OAK CREEK	34,000	86
		YAMPA RIVER AT STEAMBOAT SPRINGS	112,000	6
		ELK RIVER NEAR MILNER, CO	184,000	12

NEP is non exceedance probability for volume of the component compared to this month during the historical period 1980-2020.

*No longer exists

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

3

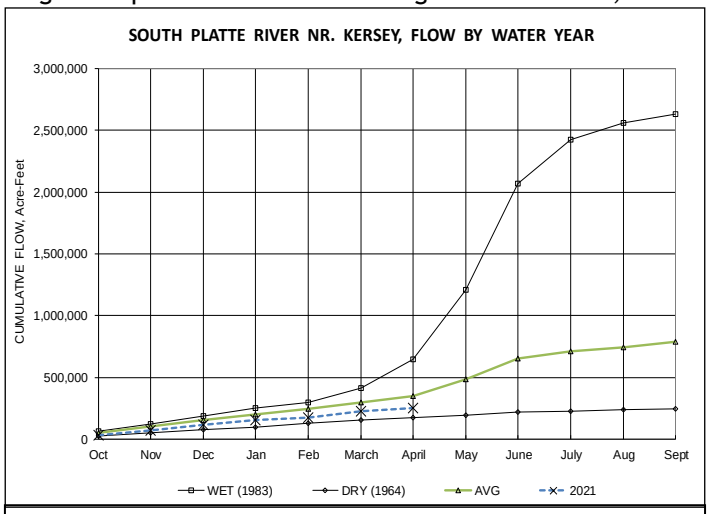
Basinwide Conditions Assessment

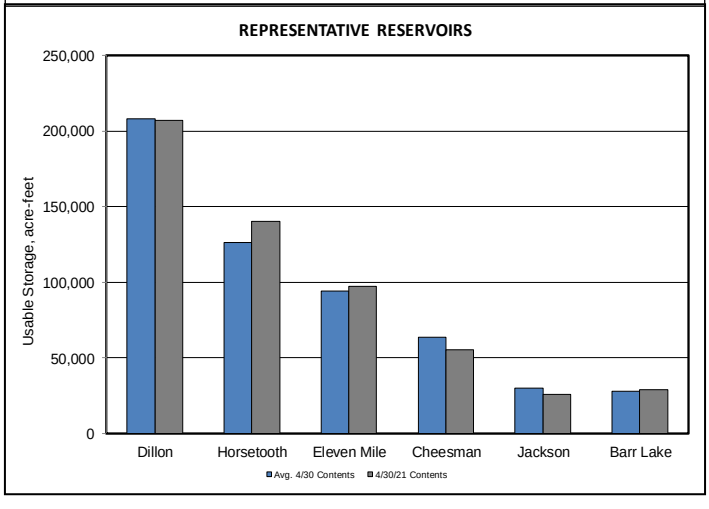
The SWSI value for the month was -0.5.

The South Platte River basin in northeastern Colorado experienced a warmer and drier than normal cycle during the first third of April, dropping snowpack from 100% to 80% of average. However, widespread cooler than average temperatures and above average precipitation during the last two-thirds of April ended the month of April overall approximately 5 to 10-degrees cooler than average and above average snowpack. The snowpack ended the month of April at 106% of average, with most of the basin near or above average ranging in tributary basins from 92% to 130% of average as reported by the USDA South Platte Basin High/Low Snowpack Summary. The USDA NRCS Probability Forecast indicates a 50% exceedance probability of slightly above average snowpack basin. The USDA NRCS Colorado Streamflow Forecasts Summary for May 1, 2021 improved during the month of April in mountain tributaries from well below average to slightly below to near average flows throughout the basin.

Above average precipitation throughout much of the basin during February through the end of April has helped to improve drought conditions throughout the South Platte and Republican River basins. In late March the entire South Platte Basin was experiencing drought conditions ranging from a rating of D2 (Severe Drought) in the southern portion of the basin and primarily D1 (Moderate Drought) and D0 (Abnormally Dry) in the northerly portion of the basin. Widespread storms and below average temperatures during the month of April further improved the drought conditions throughout the basin, with portions of Larimer, Boulder, Morgan, Logan, Weld, Washington, Phillips, and Yuma County with No Drought Conditions. The remainder of the basin was split between north and south from the plains to the Continental Divide, with a a USDA Drought Monitor rating of None and D0 in the northern portions of the basin, and a rating of D1 in the southern portion of the basin including portions of Park, Douglas, Elbert, Lincoln, and Kit Carson Counties.

The above average precipitation and cooler than average temperatures have resulted in continued diversions to the depleted upper reservoirs throughout the basin and below average streamflow due to minimal or limited high mountain snowmelt resulting in runoff. This resulted in below average flows at the Kersey stream gage downstream of the City of Greeley, for the month of April with average daily flows of approximately 475 cfs, 56% of the historic mean value of 854 cfs. These conditions in addition to water available to more junior water rights diverting water from the steam into recharge facilities resulted in below average daily flows at the Julesburg gage for the month of April of 136 cfs, only 27% of the historic mean value of 512 cfs. The demand for filling of depleted reservoirs throughout Division 1, cooler temperatures in the last half of April into May reducing irrigation demand and allowing water to be diverted into remaining empty reservoir storage and into recharge facilities will continue the trend of below average streamflows throughout the Spring into summer until runoff from mountain snowmelt commences and ramps upward.



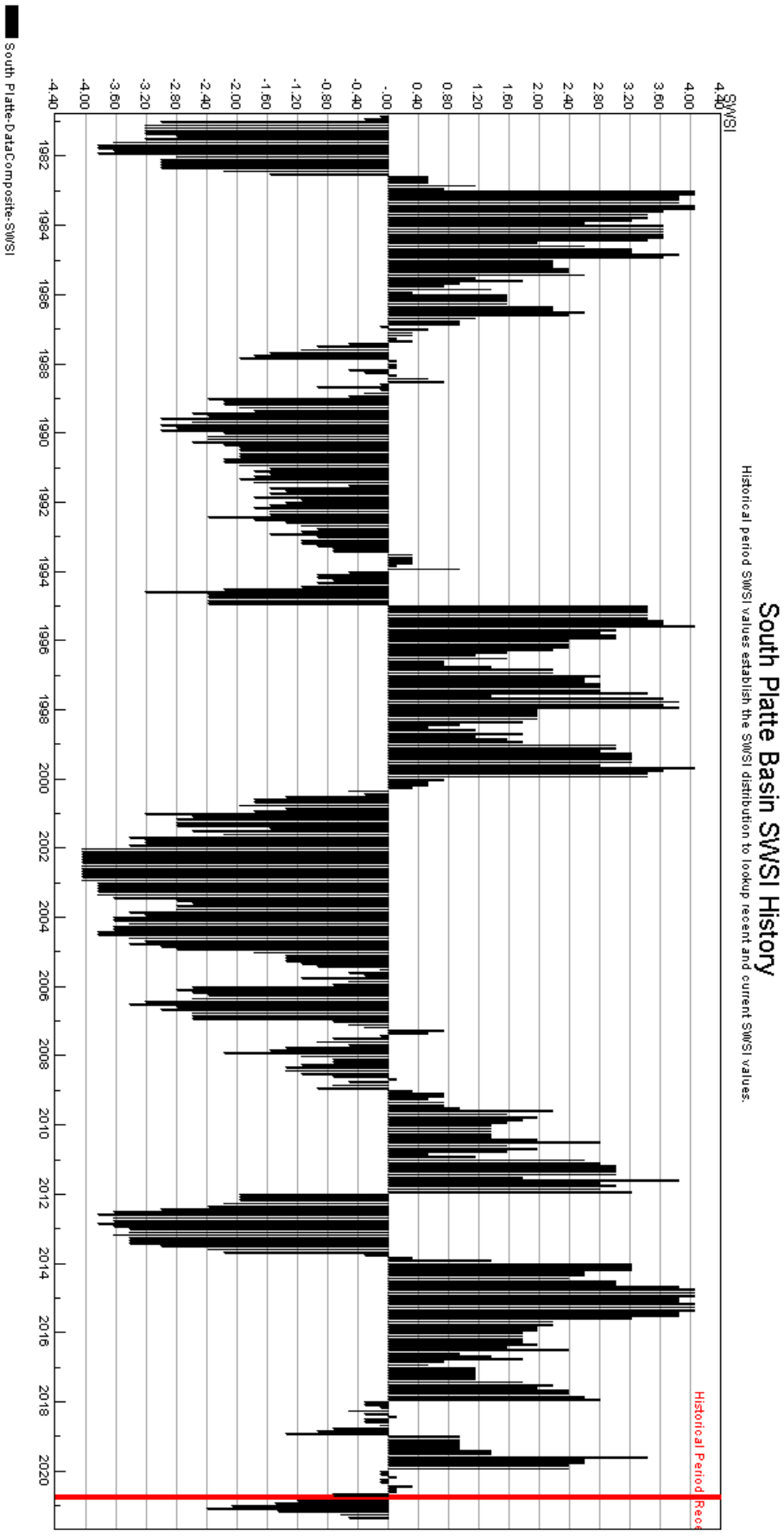


With the trend of above average precipitation, the filling of empty reservoir storage and cooler temperatures resulting in delayed and limited irrigation demand during the month of April into May have resulted in more junior priorities on the South Platte River mainstem and tributaries. Throughout much of the month of April the controlling calls on the South Platte River mainstem on the upper end of basin were controlled by the Burlington Canal 1910 diversion located just below Denver for the filling of Barr Lake and Prospect Reservoir. The middle portion of the South Platte River mainstem was controlled for the first two-thirds of the month by junior direct flow and senior recharge rights located near Sterling at several different ditches with priorities circa 1996 to 1935. However, with demand down and lower elevation reservoir levels reaching full or near full in the last third of April, the calling water rights in the middle portion of the South Platte mainstream were controlled by more junior recharge rights circa 1987 to 2003. The lower South Platte Compact Call was on April 5th through 7th, and April 26th - 27th requiring all water rights in water district 64 (from the west Washington County Line to the state line) junior to June 14, 1897 to be curtailed (not divert). During the portions of April prior to April 5th and for the remainder of April when the Compact Call was not on, a more junior bypass call was placed at the

state line curtailing District 64 water rights junior to the dates ranging from 2003 in early April to 1980 in the later portions of April. These bypass junior calls were necessary to allow adequate flows at the state line after April 1 in accordance to the South Platte River Compact that requires flow of 120 cfs at the state line or curtailment of all diversions in water district 64 junior to June 14, 1897. Many tributaries have internal calls senior to those on the South Platte River controlling diversions within their individual sub-basins. With the continued above average snowpack and improved streamflow projects of near average along with delayed snowpack, it is anticipated that the calls will remain fairly junior into the middle of May and into the peak of runoff from snowmelt.

Reservoir storage levels throughout the South Platte River mainstem ended the month of April slightly above the historical average at the 6 SWSI Representative Reservoirs (Dillon, Horsetooth, Eleven Mile, Cheeseman, Jackson, and Barr Lake) at 554,692 acre-feet volume, which is 101% of the long term average (1961-current). Additionally, 32 indexed reservoirs throughout Division 1 basin ended the month of April at 102% of the long term average with a storage volume of 937,269 acre-feet representing 82% of total full capacity for the reservoirs. This is slightly above the long term average of 80% of total full capacity for the end of April storage in the 32 indexed reservoirs throughout Division 1. Fortunately above average precipitation during the months of February through April with below average temperatures delaying a ramping up of direct flow irrigation demand, has allowed reservoirs on a basin wide basis to reach near average levels.

The temperature and precipitation outlook into June, July and August prepared by the National Weather Service, in northeastern Colorado indicates an 50-60% probability of above average temperatures and a 33-40% probability of below precipitation throughout the South Platte River Basin and Republican River Basin.



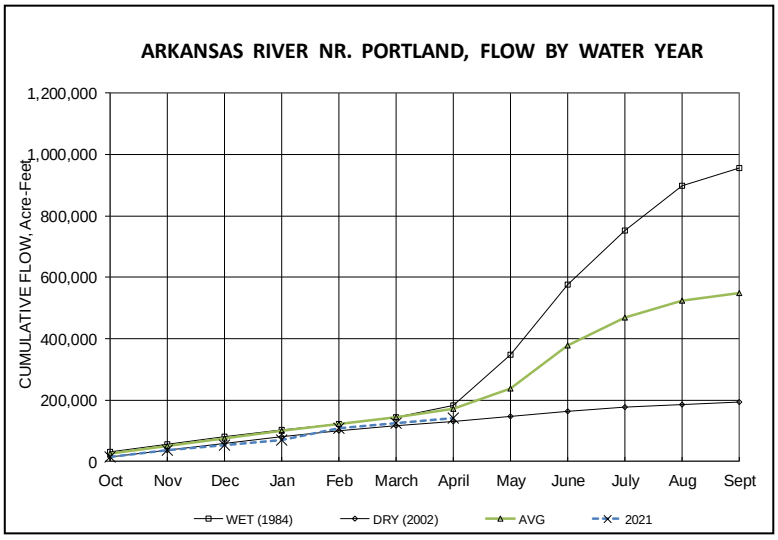
Basinwide Conditions Assessment

The SWSI value for the month was -1.8.

Outlook

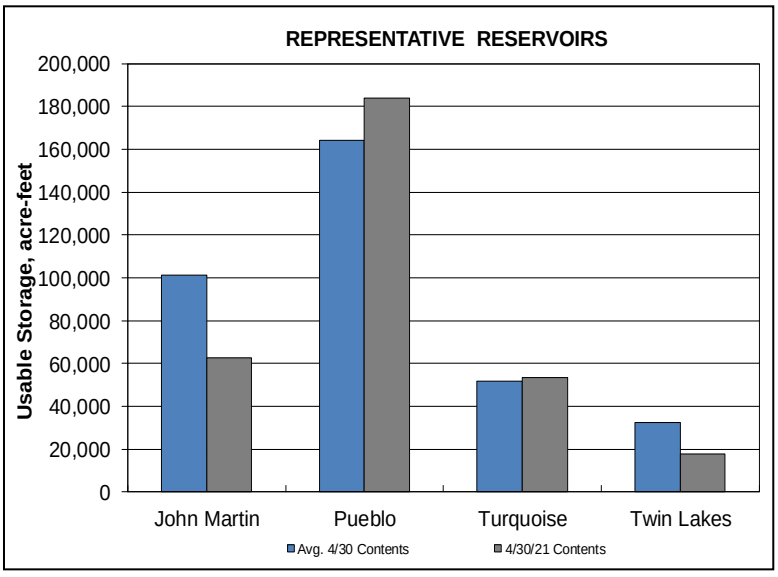
The Division of Water Resources Division 2 River Operations began distributing Winter Compact water on April 7th at 8:00 AM at the rate of 1,000 cfs. That distribution ended on April 15th and was immediately followed by the distribution of the Summer Compact water at the same rate. The distribution concluded on April 16th at 6:00 AM.

The mainstem river call at the beginning of the month was the Fort Lyon Canal 12/3/1884 water right above John Martin Reservoir with a Catlin Canal pass thru. The month ended with the more senior 4/15/1884 Ft Lyon Canal call.

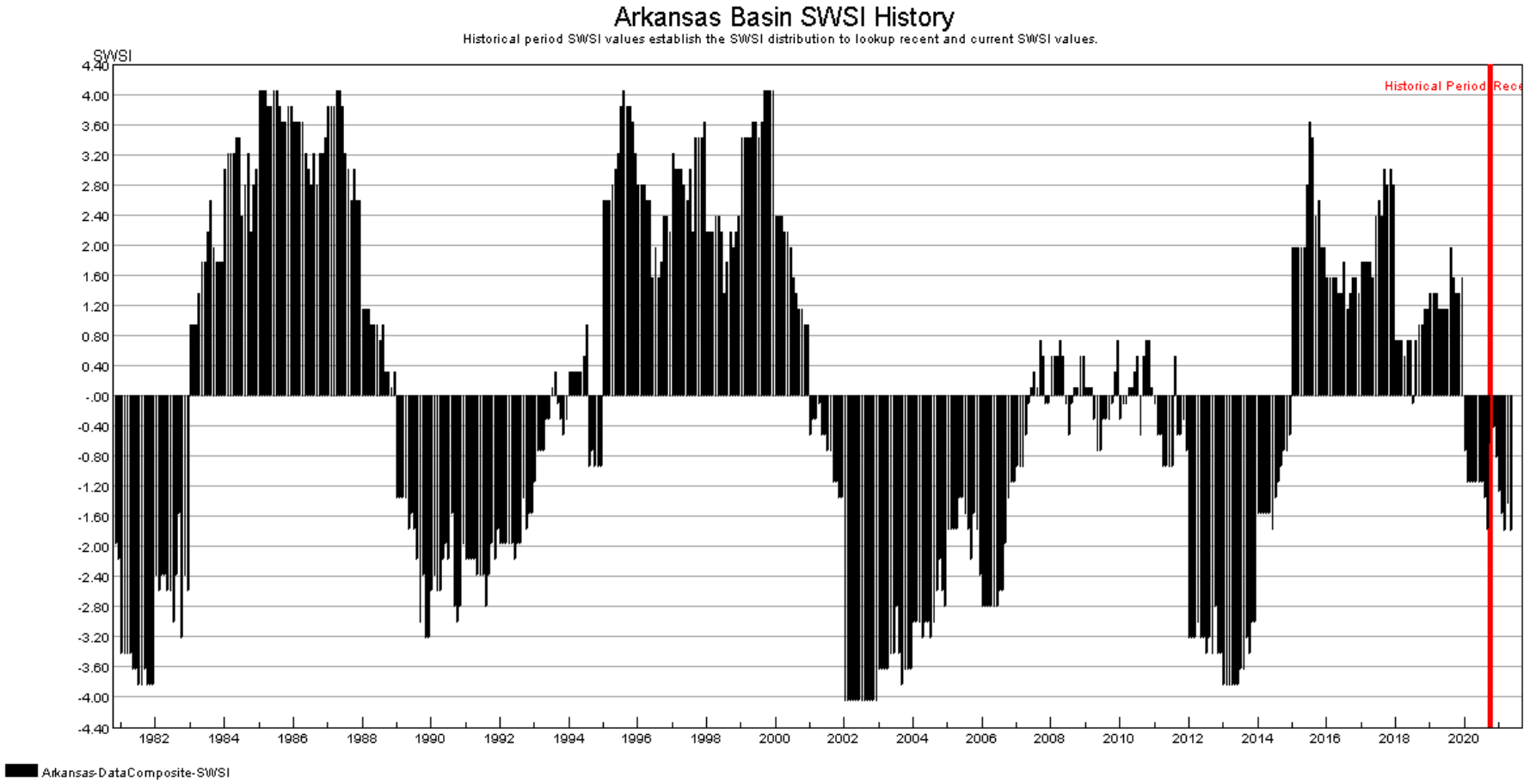


Administrative Concerns

Annual Rule 14 Well Association replacement plans were again reviewed and approved for the April 1, 2021 through March 31, 2022 period despite the ongoing social distancing and remote work status of the Division of Water Resources staff due to the 2020 COVID 19 Pandemic. Colorado and Kansas held a meeting of the Operations Secretary and Assistant Secretary virtually on April 27th, 2021 in preparation for the 2021 season. The agenda for the meeting included updates on Winter Water storage values and operations; discussions on the 2021 water supply outlook and potential reservoir calls: and coordination on the in-person dry up inspections that are intended to be conducted in 2021.



Run off in 2021 is looking poor overall after April. The early and sharp decline in snowpack will have a significant impact to stream flows after a dry winter. During April, operations were slow to start and little flow was available leading to particularly senior calls on the river for April.


Arkansas Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
4.40
4.00
3.60
3.20
2.80
2.40
2.00
1.60
1.20
0.80
0.40
-.00
-0.40
-0.80
-1.20
-1.60
-2.00
-2.40
-2.80
-3.20
-3.60
-4.00
-4.40
Historical Period
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Arkansas-DataComposite-SWSI

Basinwide Conditions Assessment

The SWSI value for the month was -2.5.

Flow at the gaging station Rio Grande near Del Norte averaged 670 cfs (94% of average). The Conejos River near Mogote had a mean flow of 313 cfs (111% of average). Flow to the state line was only 35% of normal as upstream diversions for irrigation needs continued.

Alamosa received precipitation totaling only 0.21 inches during April, 0.38 inches below normal and a general indicator of conditions throughout the basin where the snowfall during April was sparse. The decline of the basin's snowpack began on April 1, more than a week early. Only three small snow producing systems passed through the local mountains since then - a very disappointing Spring full of warm temperatures and heavy wind.

Outlook

NRCS forecasts are now predicting April through September runoff to be only 27% to 79% of average in the upper Rio Grande basin of Colorado. The best forecasts are for those rivers with long drainages and high elevations: the Rio Grande, the Alamosa, and the Conejos. Low elevation and short drainages will have low streamflow the remainder of this irrigation season. Based on these forecasts, water users in the basin who are reliant on stream flow for irrigation and stock watering needs should expect limited availability.

The National Weather Service is predicting warmer and drier than normal weather conditions for the next three months. There may be some precipitation sliding into the San Luis Valley from Arizona during July and August. A normal monsoon?

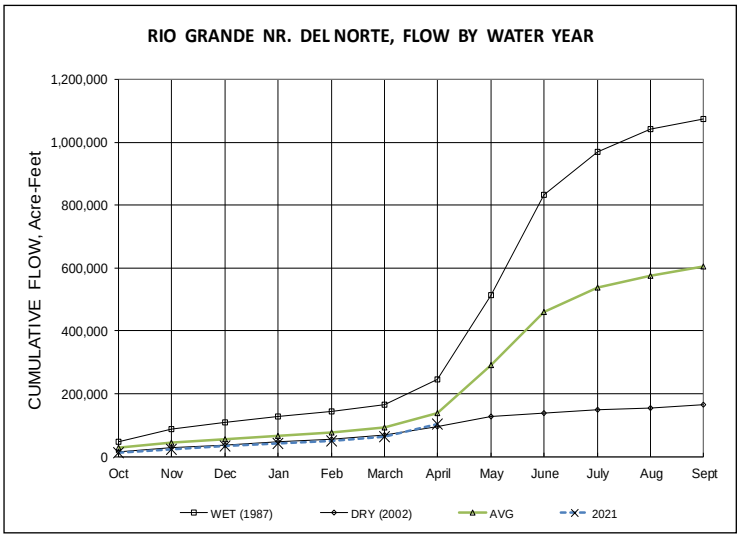
Administrative/Management Concerns

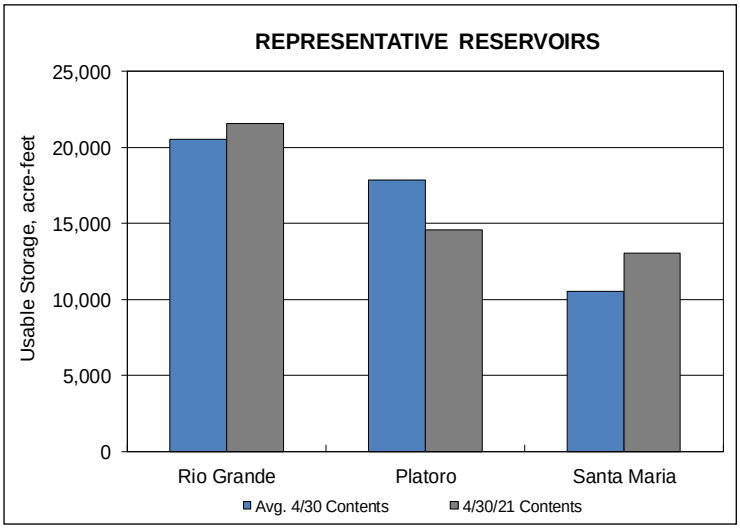
Water rights were able divert nearly all available flow during April from the Rio Grande and the Conejos as only minor curtailment will be necessary on these drainages to make water available for required Rio Grande Compact deliveries in 2021. This is a common practice for poor runoff years.

Groundwater Management Subdistrict No. 5 of the Rio Grande Water Conservation District (RGWCD) encompasses much of the Saguache Creek drainage area long with the southwestern part of Saguache County. The Annual Replacement Plan (ARP) was not approved by the State Engineer. Therefore, until further notice, non-exempt wells without an approved plan for augmentation or Substitute Water Supply Plan cannot operate. This order affects the operation of over 100 irrigation wells in that area. The other Subdistricts of the RGWCD and the Trinchera Subdistrict are currently operating on approved ARP's.

Public Use Impacts

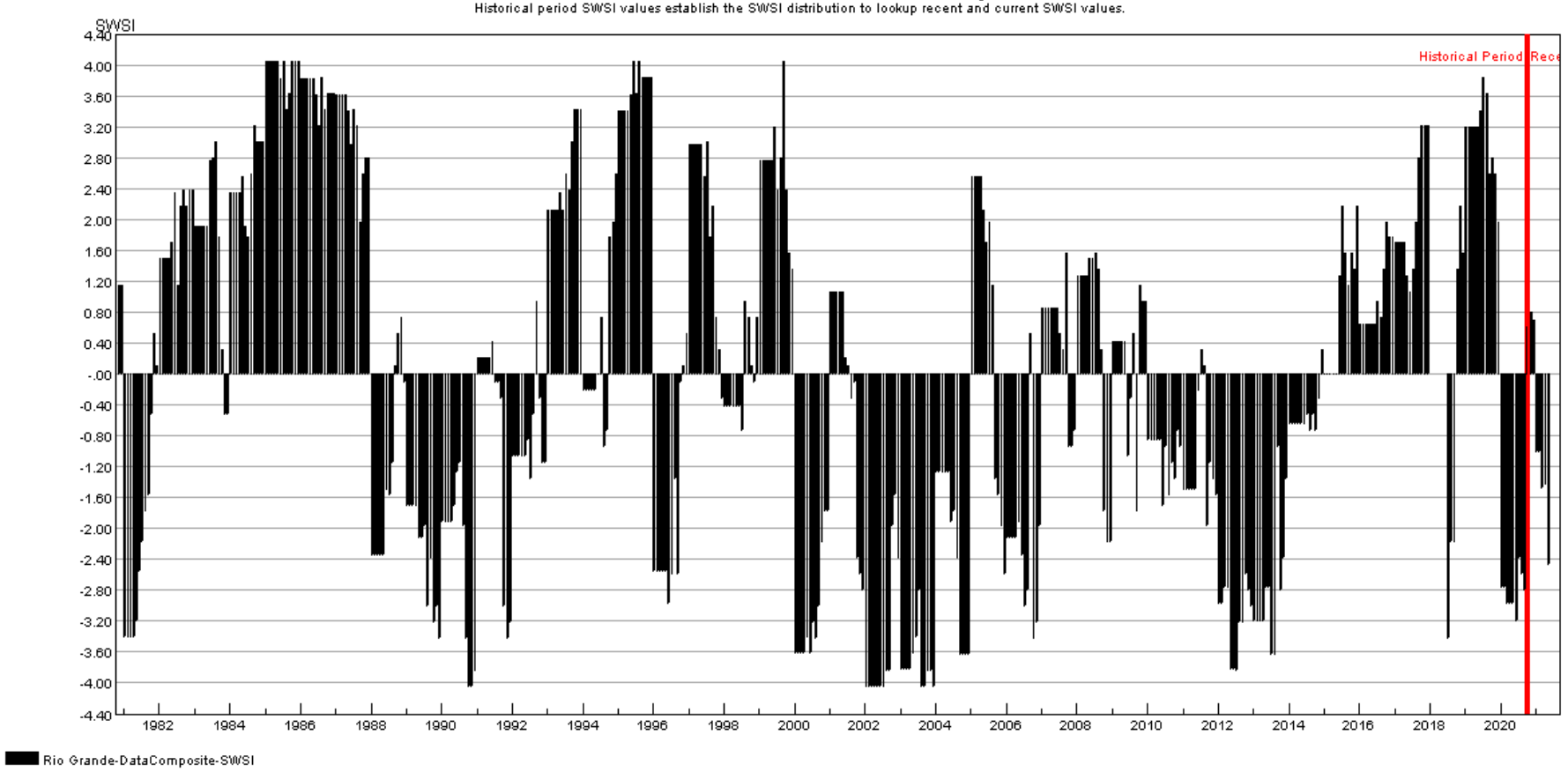
The anticipated poor stream flow will adversely affect the farming, ranching, and recreational industries in the basin. Reservoir storage in this basin began at a poor to air level this year. Many reservoirs will be nearly empty by the end of this irrigation season.





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 -3.2.

Basin Wide Conditions Outlook

Dry conditions persisted in the Gunnison basin during April. Most of the basin only received between 30 and 50 percent of average precipitation and some areas, including southern parts of the Uncompahgre River basin and the lower Gunnison received only 10 percent of average. The Gunnison basin snow water equivalent (SWE) value, as measured by the average of basin Snotel stations, peaked on approximately March 28th, at 83 percent of the 30-year median. Since that time, however, the lack of snowfall and warming temperatures have resulted in a decline to 49 percent of the median on May 18th. The peak was lowest when compared with the median on the Grand Mesa, where SWE at Park Reservoir peaked on April 16th at 74 percent of the median. Unfortunately, due to the lack of soil moisture in the fall and a predominance of dry winds during April, the significant melt off hasn't resulted in a commensurate bump in streamflows.

Outlook

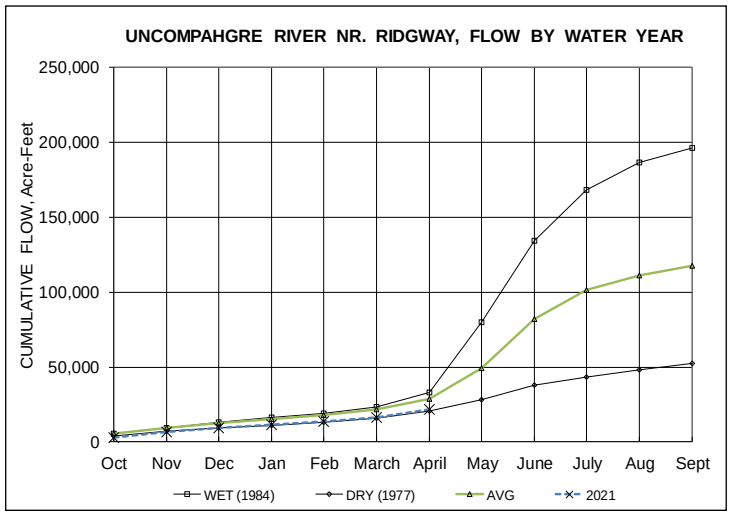
According to National Climate Prediction Center forecasts, the Gunnison basin is expected to receive below average precipitation for the next 30 days. The lack of snowfall in April and loss of snowpack have caused April to July streamflow forecasts prepared by the CBRFC to plummet during April and early May. The May 1st forecast for runoff into Blue Mesa Reservoir has declined 80,000 acre-feet from 420,000 AF on April 1st to only 340,000 acre-feet on May 1st, which shifts the runoff category from Moderately Dry to a Dry year type as defined in the Record of Decision for the Aspinall Unit reoperations EIS. Forecasts for Uncompahgre River runoff into Ridgway Reservoir and the North Fork Gunnison into Paonia Reservoir have declined to 45 and 49 percent of the median, respectively.

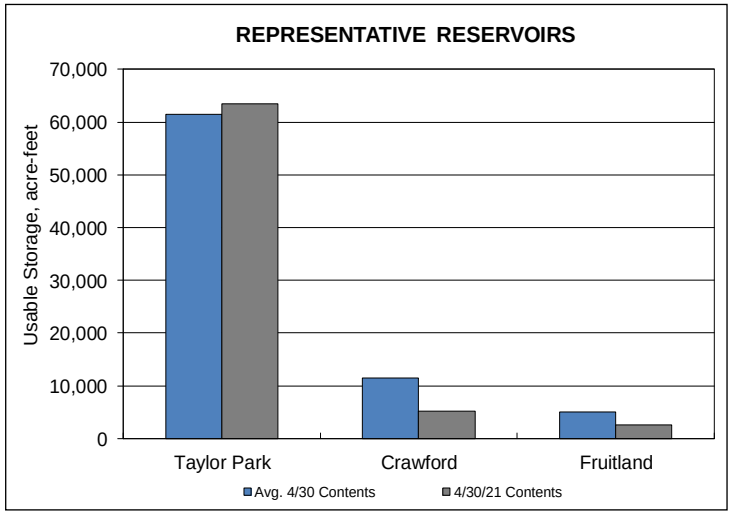
Administrative/Management Concerns

Continued dry conditions, which resulted in high demand from irrigators in the Uncompahgre Valley caused the Uncompahgre Valley Water Users Association (UVWUA) to hit their typical full diversion at the Gunnison Tunnel of over 1,000 cfs by April 16th. The lack of significant high runoff in April and this heavy demand resulted in an April hole where the Tunnel used 8,000 acre-feet of storage already by May 1st. However, the UVWUA reduced deliveries to 60% and did not place a call on the Uncompahgre River during April.

As mentioned previously, the 340,000 acre-feet inflow forecast for Blue Mesa Reservoir (which is only 50% of average and considered a Dry type runoff year, will result in the Bureau of Reclamation attempting to reach a one day peak flow in the Black Canyon of only 1,000 cfs and maintenance of steady flows in the lower Gunnison River (as measured at the Whitewater gage) of only 900 cfs, due to drought rules in effect. Drought rules stay in effect until Blue Mesa Reservoir content exceeds 600,000 AF. Reclamation began ramping up releases from Crystal Dam to reach the peak target by May 15th.

Calls have been placed on most of the main drainages of the Grand Mesa as well as a local call on Dallas Creek in Water District 68. Calls on the tributaries of Surface Creek also curtail storage for junior reservoirs on top of the Grand Mesa. Division of Water Resources (DWR) staff are currently determining reservoir elevations to determine how much was stored in each reservoir during the winter and the elevation each reservoir was at when the call was placed. Most reservoirs on the Grand Mesa remain frozen, meaning that outlets cannot be operated. The water surface elevation at time of call allows DWR to calculate any amount stored out-of-priority, which will be released when the outlets can be operated.



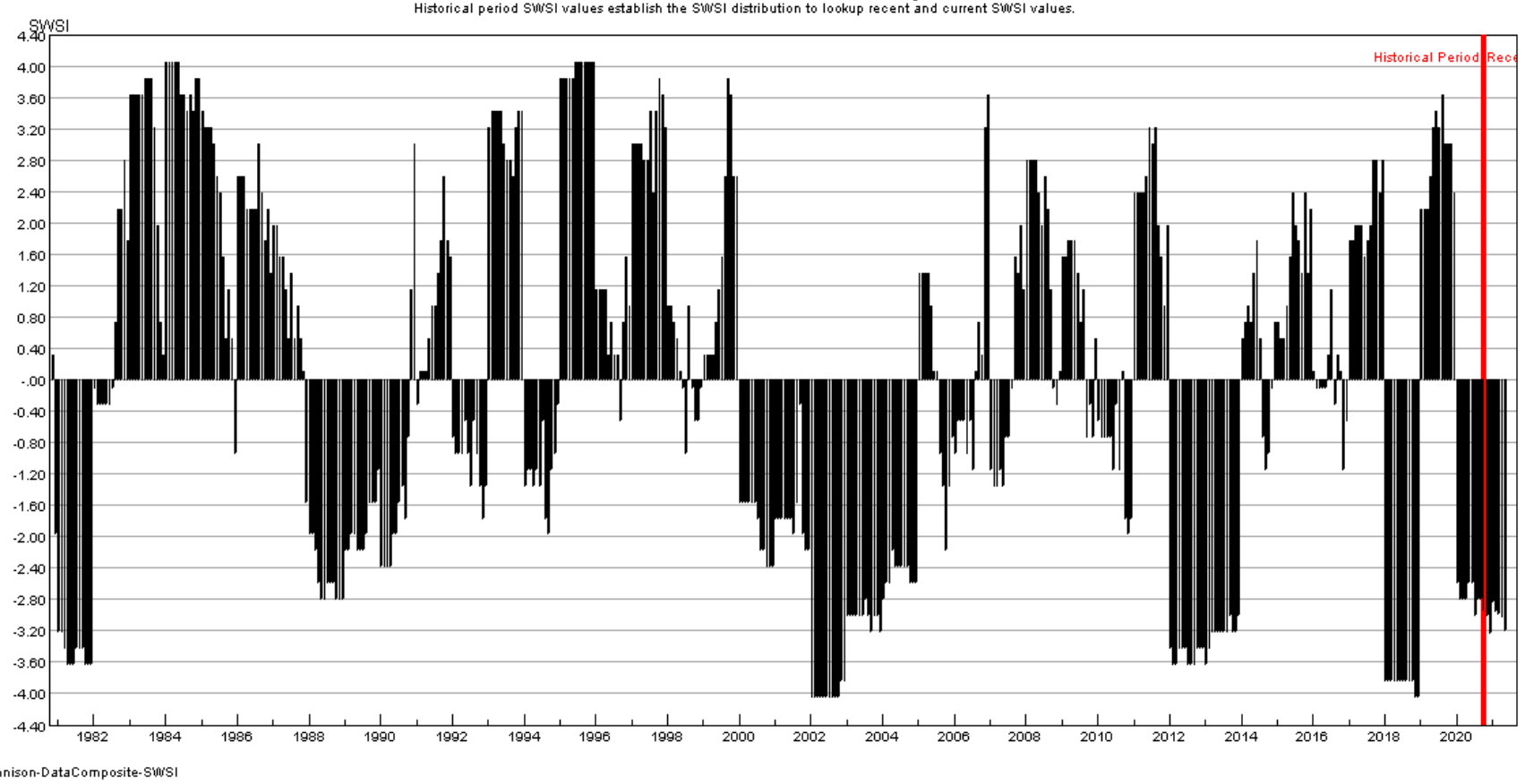


Public Use Impacts

River rafters with plans for boating trips in the summer may wish to change their plans to May! The runoff is occurring at this time and it will likely be very brief.

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 -3.2.

Outlook

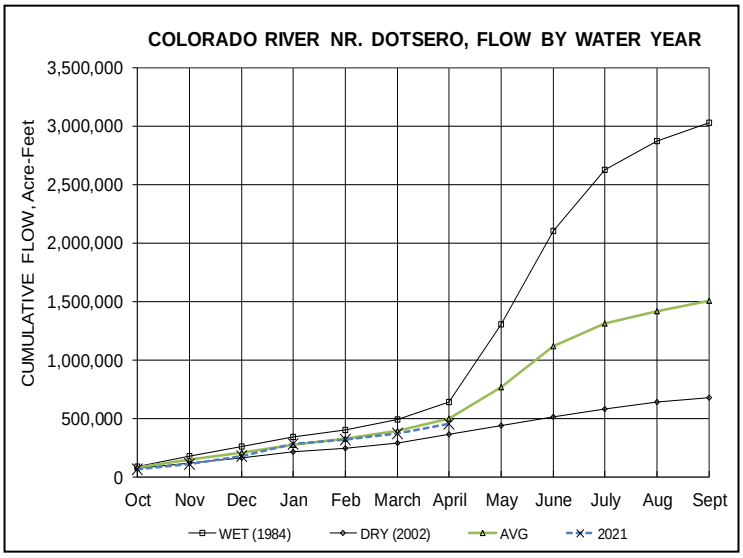
Colorado River flows are currently running below average and forecast to run below average through May with tributary flows also running below average throughout May. As of May 20th, the Upper Colorado River Basin snowpack was 53 percent of median snow water equivalent and 73 percent of average precipitation. Above average temperatures and below average precipitation are forecast for May.

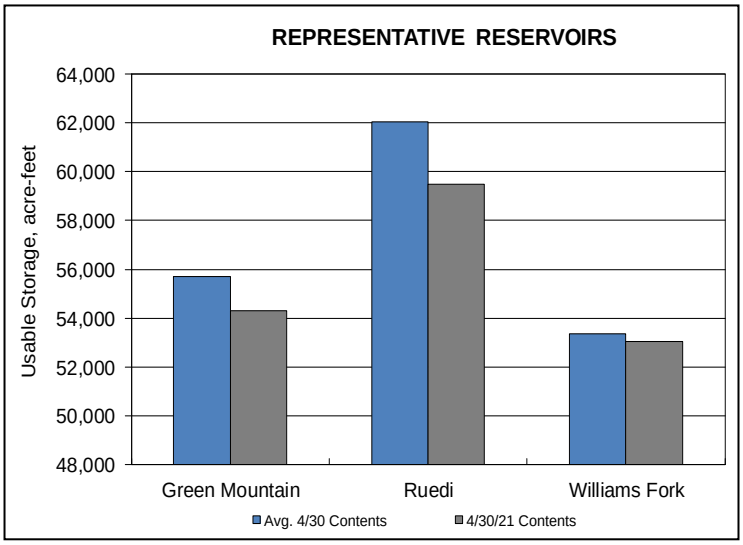
Administrative/Management Concerns

There is currently no call on the Colorado River. Green Mountain Reservoir has started to fill under the 1935 storage first fill water right and is discontinuing power generation due to flows being below generating capacity. Grand Valley Irrigation diversions (Government Highline/Orchard Mesa Irrigation, Grand Valley Irrigation canals) are running and are at or near full capacity.

Public Use Impacts

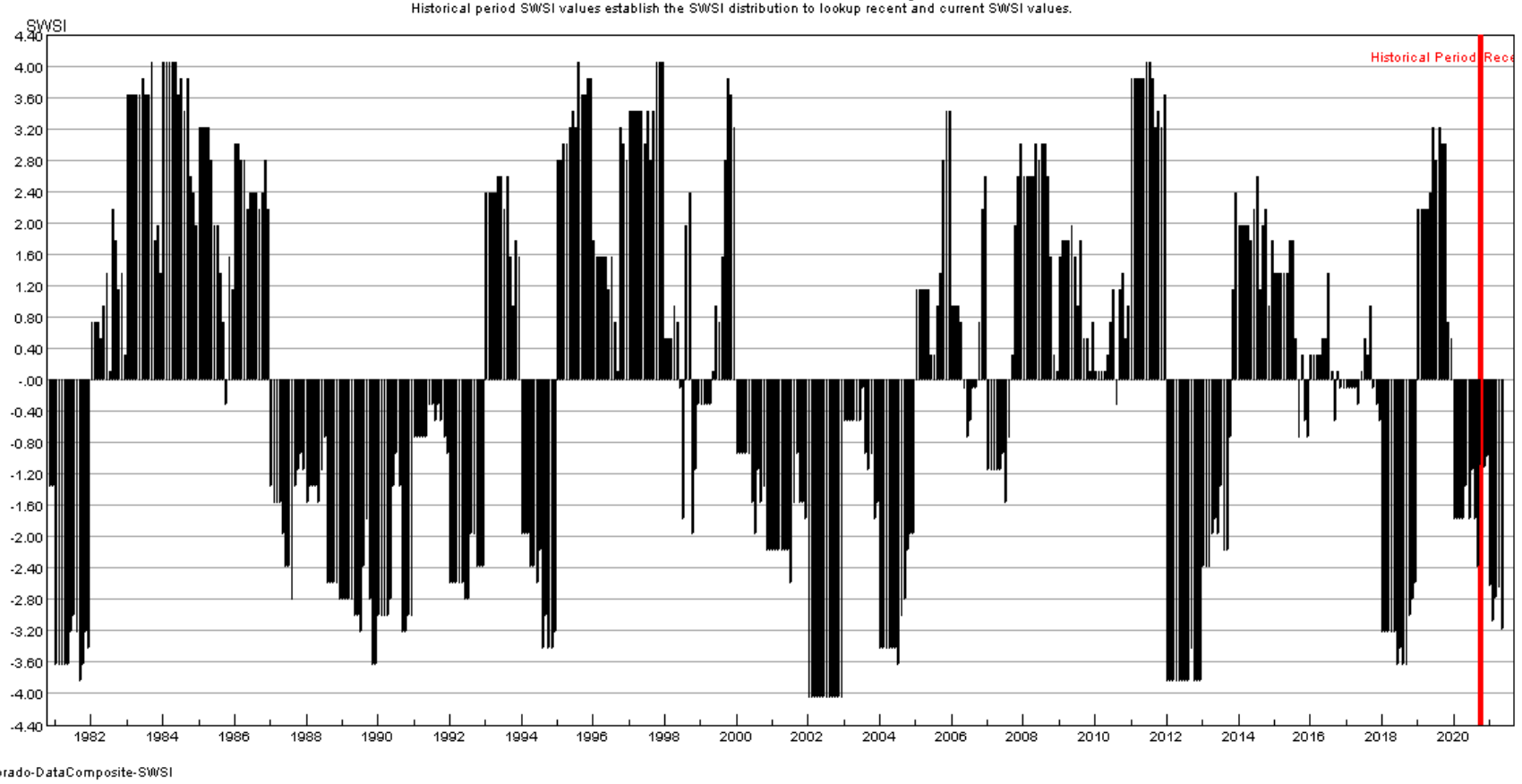
The Orchard Mesa Irrigation District and Grand Valley Water Users Association plan to build the Vinelands Power Plant to replace the aging Grand Valley Power hydroelectric plant near Palisade. The current plant was built in the early 1930s.





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 -2.1.

Snowpack *(25 sites)* – Yampa and White River basins were 62% of the monthly median for SWE. This is down from last year's SWE median of 97%. The North Platte River basin was 76% of the monthly median for SWE and is down from last year's SWE median of 105%. For the entire Yampa, White and North Platte River basins the lowest percent of median was at the Lynx Pass SNOTEL site at 0%. The highest percent of median was at the Chambers Lake SC station at 138%.
**Averages are from 1981-2010 records*

Precipitation (24 sites) – Yampa and White River basins were 41% of the monthly average, putting the basin at 67% of average for the water year to date. This is down from last year's monthly average of 83%, and down from last year's water year to date of 97%. North Platte River basin was 53% of the monthly average, putting the basin at 84% for the water year to date. This is down from last year's monthly average of 89%, and down from last year's water year to date of 107%. For the entire Yampa, White and North Platte River basins the lowest percent of average, at 15%, was the Battle Mountain SNOTEL station. The highest, at 92%, was the Roach SNOTEL station, with 3.6 inches.
**Averages are from 1981-2010 records*

Temperatures – The average monthly temperature for NOAA Colorado Climate Division 2: Colorado River Drainage was **41.6° F**. This is +2.4°F from the average of 39.2°F. This temperature ranks 99 for the lowest of the previous 127 years of data. For the NOAA Colorado Climate Division 4: Platte Drainage, the average temperature was **41.2°F**, -0.9°F from the average of 42.1°F, ranking 43.
**Averages are from 1901-2000 records*

Reservoir Outlook

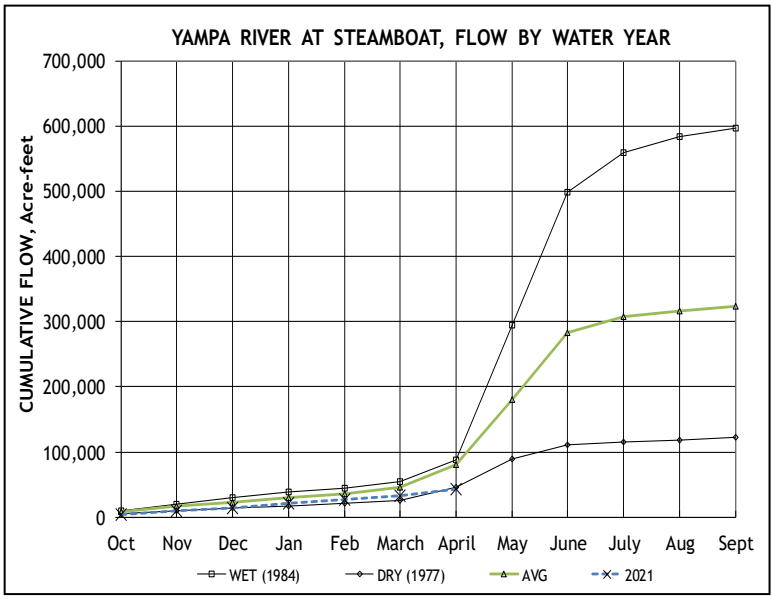
Elkhead Reservoir – April 30, 2021 capacity level was 21,087 AF of 25,550 AF – 82.5% capacity.

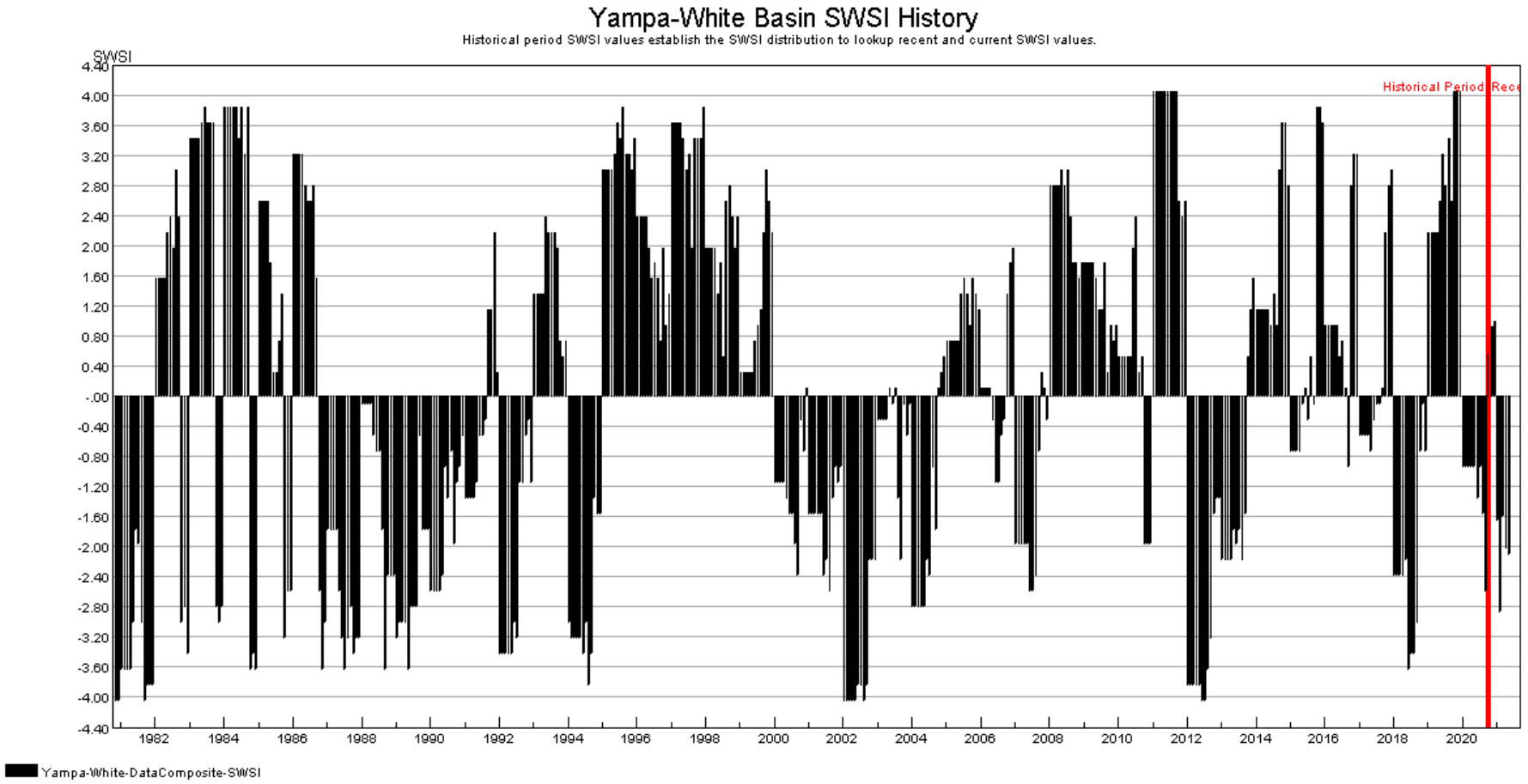
Fish Creek Reservoir – April 30, 2021 elevation was 9864' at 1,667 AF of 4,160 AF – 40.0% capacity.

Stagecoach Reservoir – April 30, 2021 capacity level was 34,000 AF of 36,500 AF – 93% of capacity, 112% of average, 95% of last year.

Yamcolo Reservoir – April 30, 2021 capacity level was at 5,700 AF of 8,700 AF – 65% of capacity, 81% of average, 70% of last year.

**Averages are from 1901-2000 records*




Yampa-White Basin SWSI History
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.
SWSI
4.40
4.00
3.60
3.20
2.80
2.40
2.00
1.60
1.20
0.80
0.40
-.00
-0.40
-0.80
-1.20
-1.60
-2.00
-2.40
-2.80
-3.20
-3.60
-4.00
-4.40
Historical Period
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Yampa-White-DataComposite-SWSI

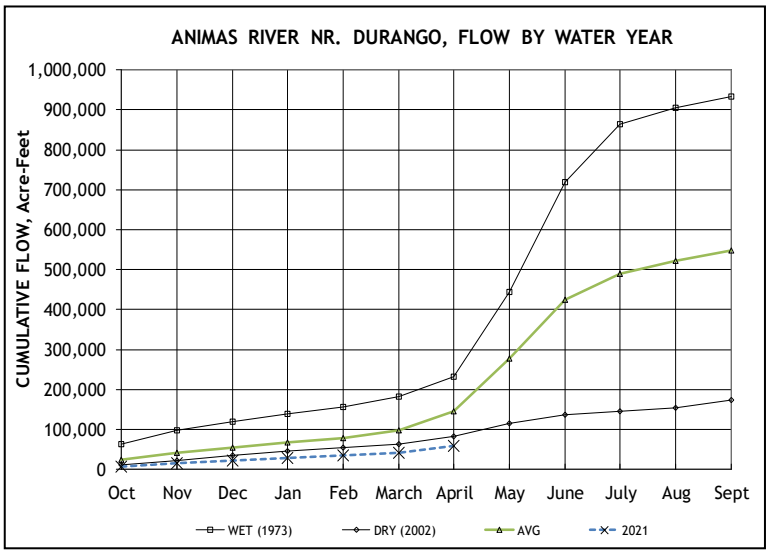
Basinwide Conditions Assessment

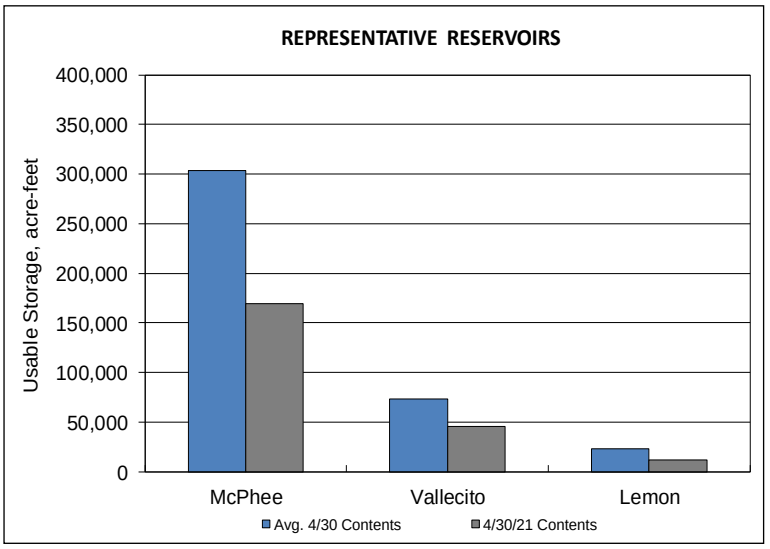
The SWSI value for the month was -3.2.

Flows at the Animas River at Durango averaged 295 cfs (35% of average). The flow at the Dolores River at Dolores averaged 192 cfs (26% of average). The La Plata River at Hesperus averaged 25.5 cfs (32% of average). Precipitation in Durango was 0.15 inches for the month, 12% of the 30-year average of 1.24 inches. Precipitation to date in Durango, for the water year is 5.56 inches, 50% of the 30-year average of 11.23 inches. The average high and low temperatures for the month of April in Durango were 66º and 32º. In comparison, the 30-year average high and low for the month is 63º and 31º. At the end of the month Vallecito Reservoir contained 57,405 acre-feet compared to its average content of 67,493 acre-feet (85% of average). McPhee Reservoir was up to 176,422 acre-feet compared to its average content of 304,814 (58% of average), while Lemon Reservoir was up to 13,577 acre-feet as compared to its average content of 22,939 acre-feet (59% of average).

Outlook

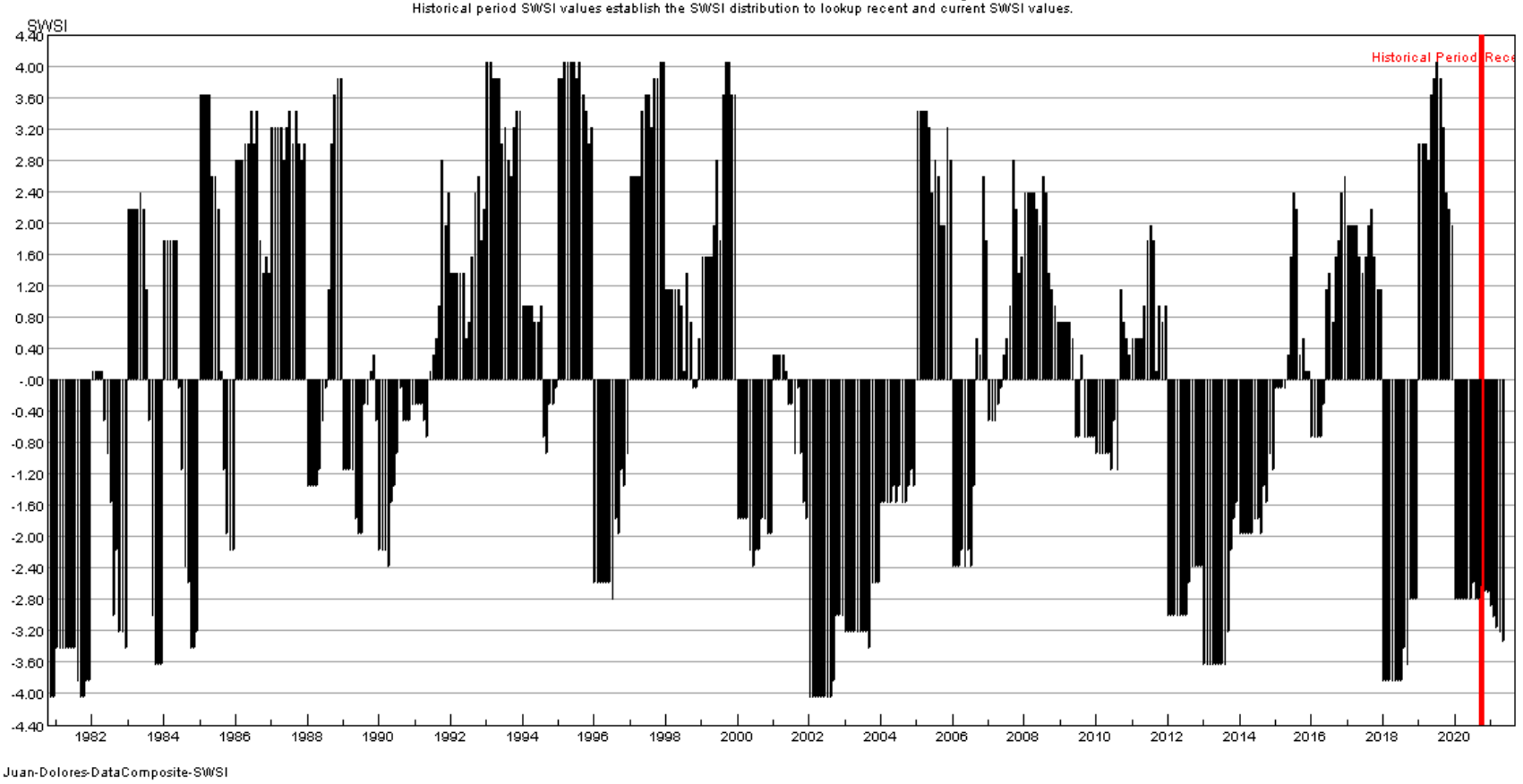
Precipitation (0.15 inches) was well below average for April in Durango. There were 119 years out of 126 years of record where there was more precipitation than this year. With the lack of moisture in the area, the flows in the rivers remain well below average for the month. There were 106 out of 110 years of record where there was more flow at the Animas River at Durango gage than this year. There were 107 out of 110 years of record where the total flow past the Dolores stream gauge was more than this year. There were 98 out of 104 years of record where the total flow past the La Plata River at Hesperus gauge was more than this year. All of the reservoirs within the basin are well below average for this time of year. On April 30, the NRCS SNOTEL sites reported an average snow-water-equivalent within the basin at 58%. Last month the average snow-water-equivalent at the end of the month was 85%.





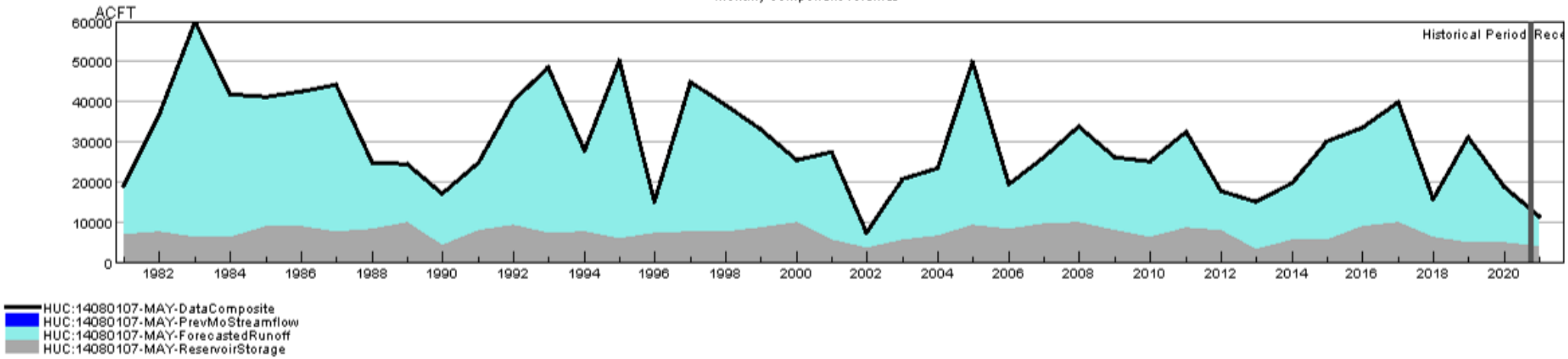
San Juan-Dolores Basin SWSI History

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



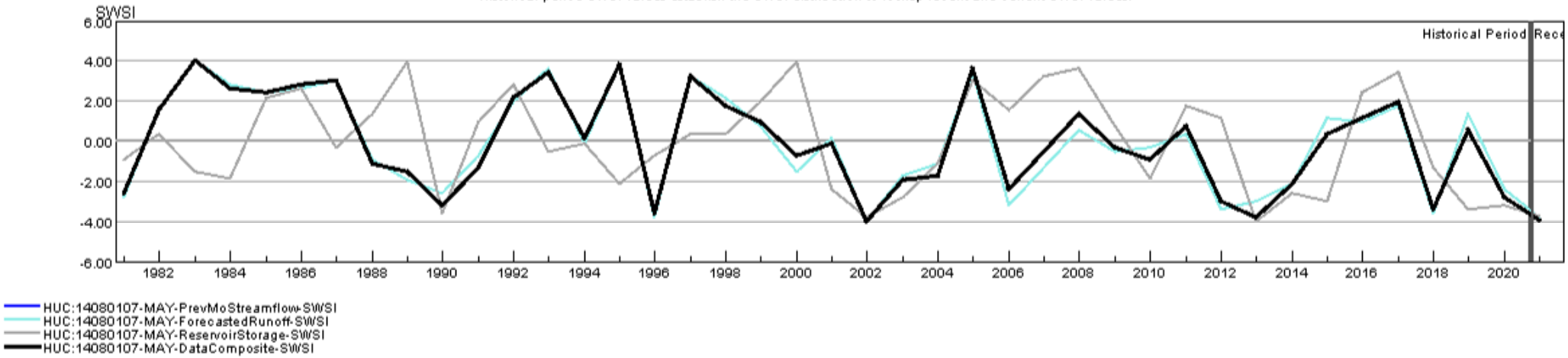
HUC 14080107 (Mancos) Surface Water Supply - MAY

Monthly component volumes



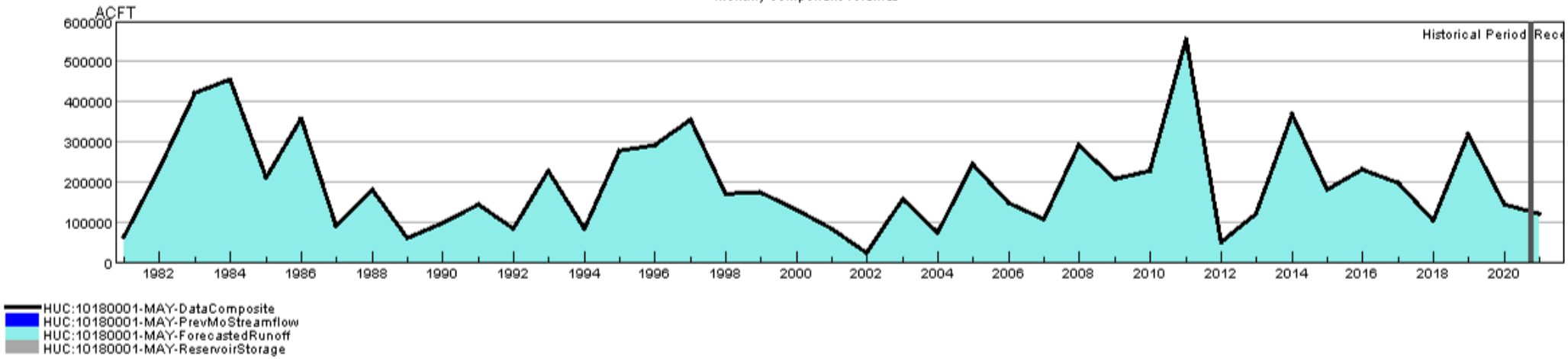
HUC 14080107 (Mancos) SWSI Values - MAY

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



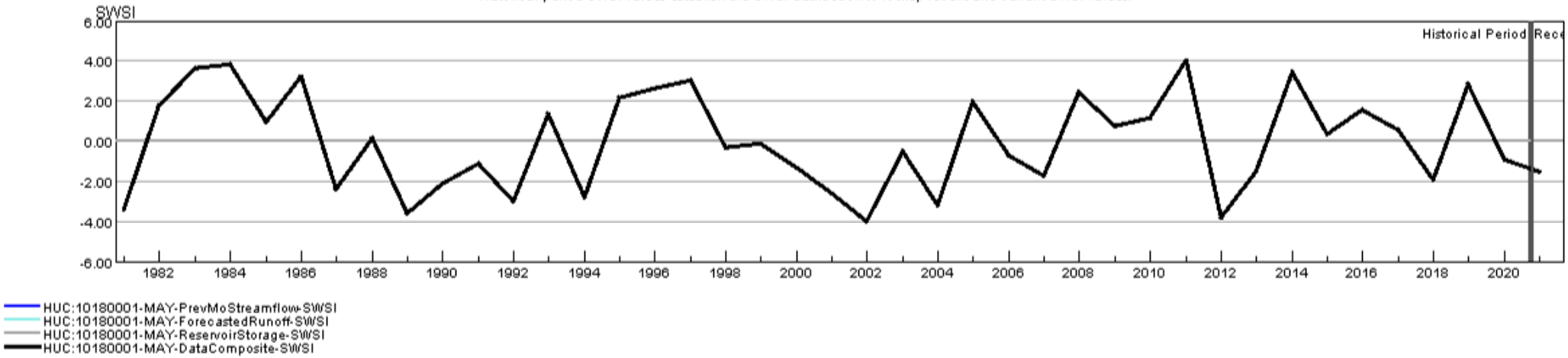
HUC 10180001 (North Platte Headwaters) Surface Water Supply - MAY

Monthly component volumes



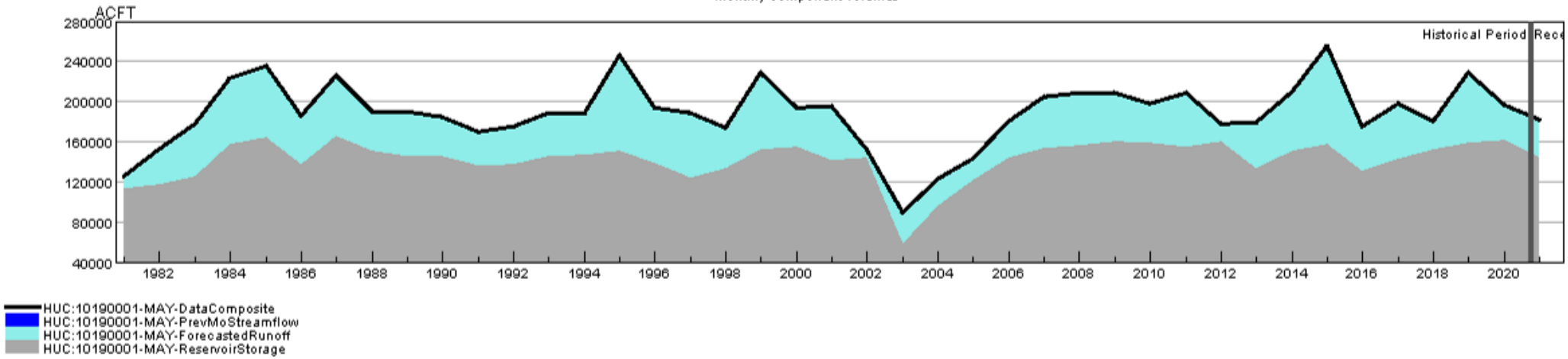
HUC 10180001 (North Platte Headwaters) SWSI Values - MAY

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



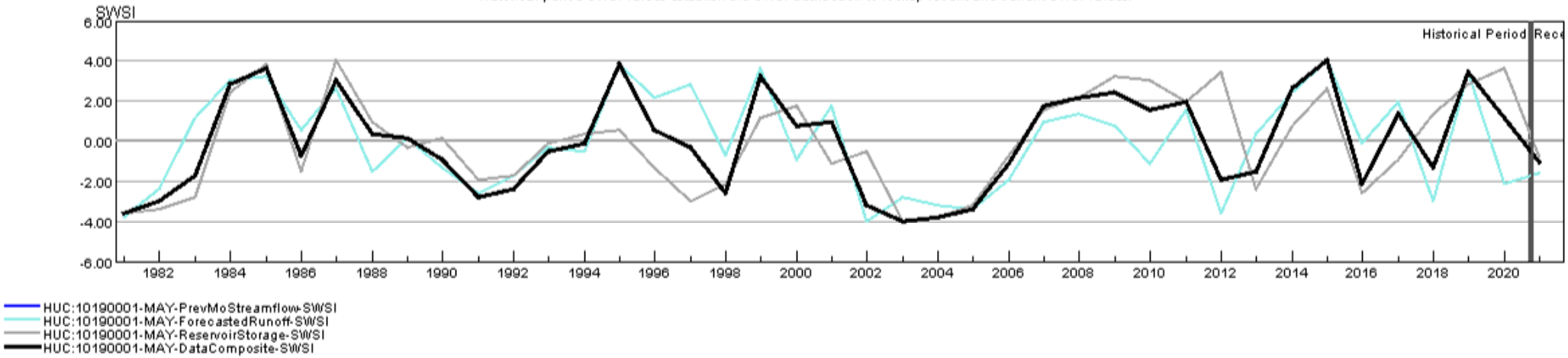
HUC 10190001 (South Platte Headwater) Surface Water Supply - MAY

Monthly component volumes



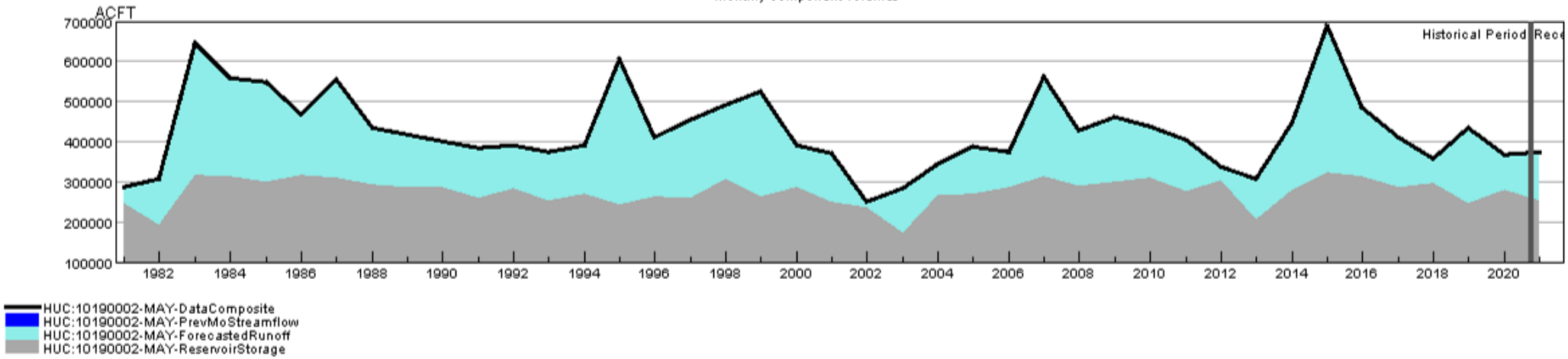
HUC 10190001 (South Platte Headwater) SWSI Values - MAY

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



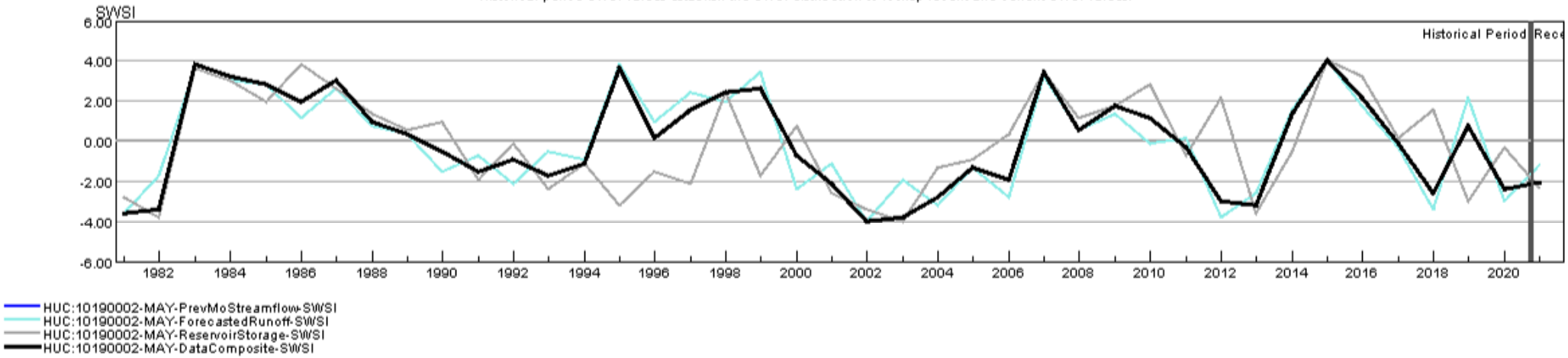
HUC 10190002 (Upper South Platte) Surface Water Supply - MAY

Monthly component volumes



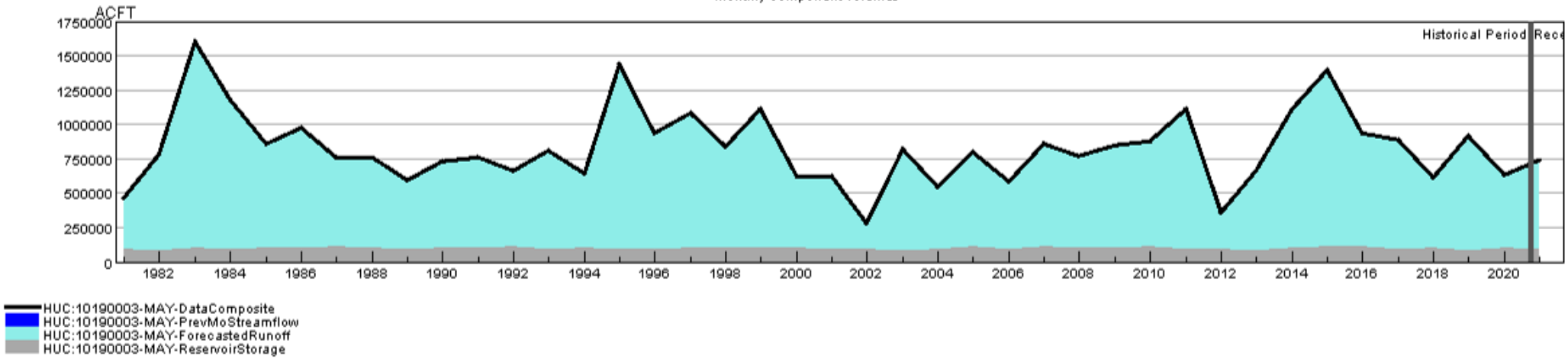
HUC 10190002 (Upper South Platte) SWSI Values - MAY

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



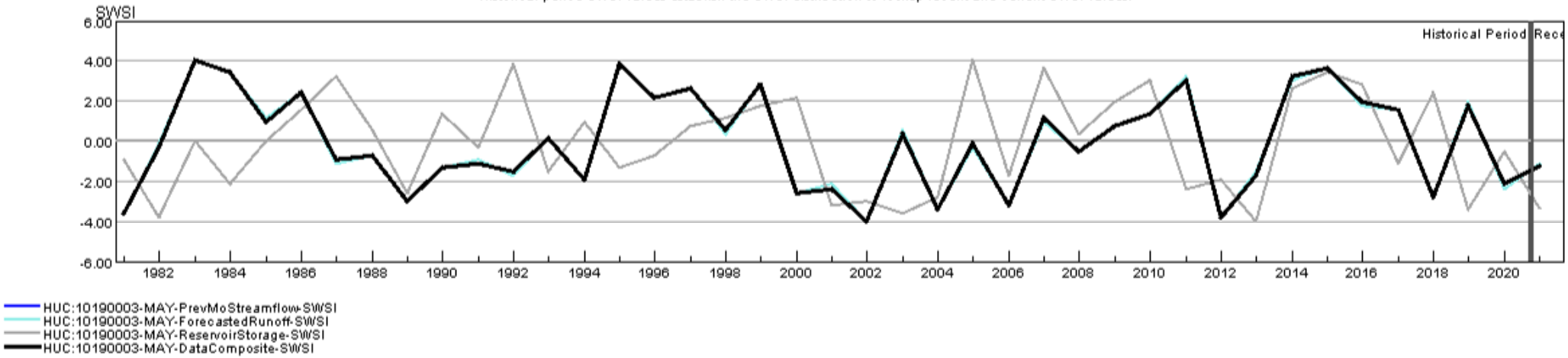
HUC 10190003 (Middle South Platte-Cherry Creek) Surface Water Supply - MAY

Monthly component volumes



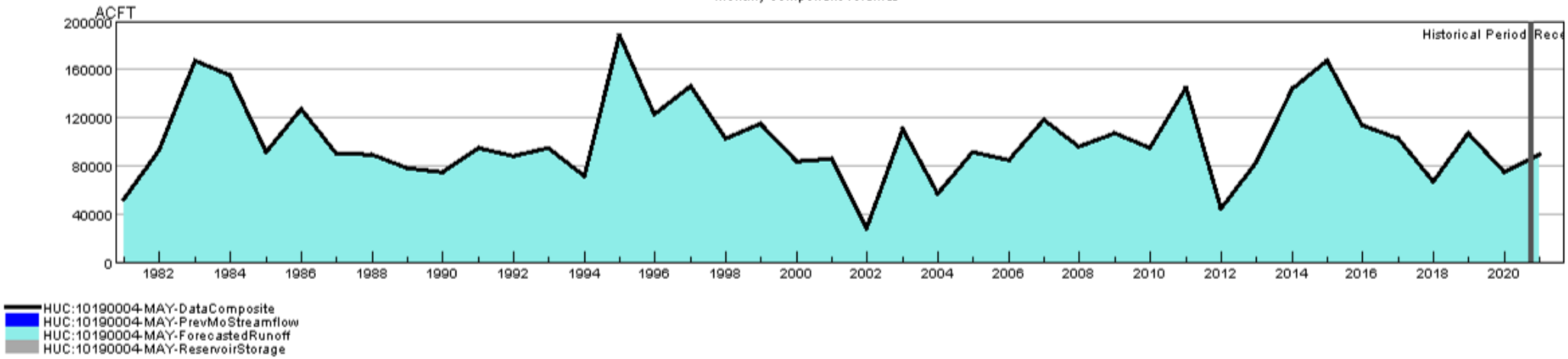
HUC 10190003 (Middle South Platte-Cherry Creek) SWSI Values - MAY

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



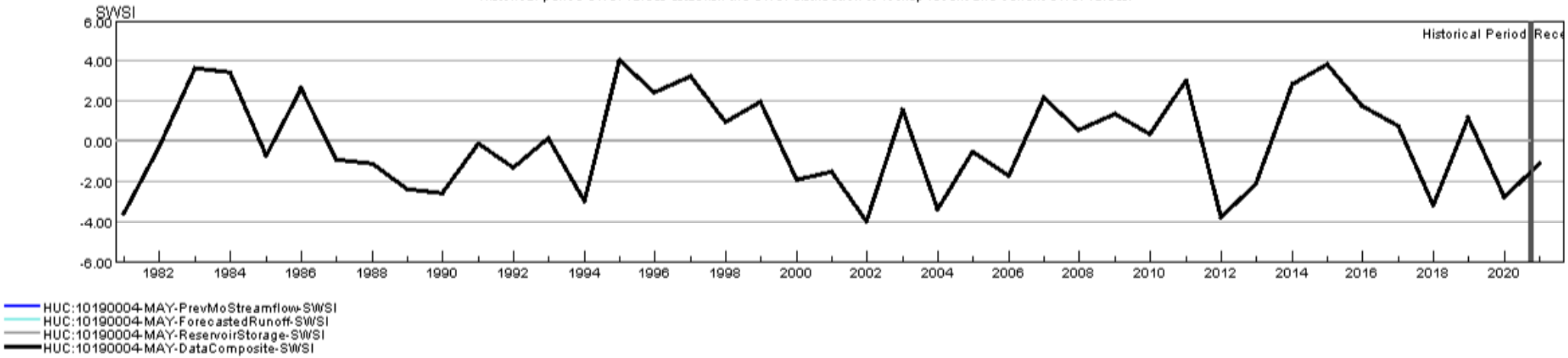
HUC 10190004 (Clear) Surface Water Supply - MAY

Monthly component volumes



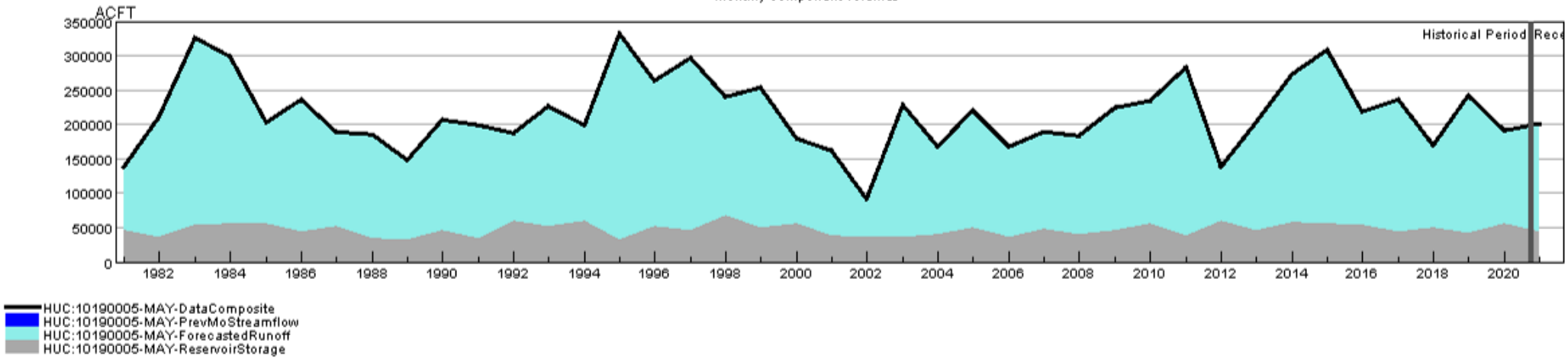
HUC 10190004 (Clear) SWSI Values - MAY

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



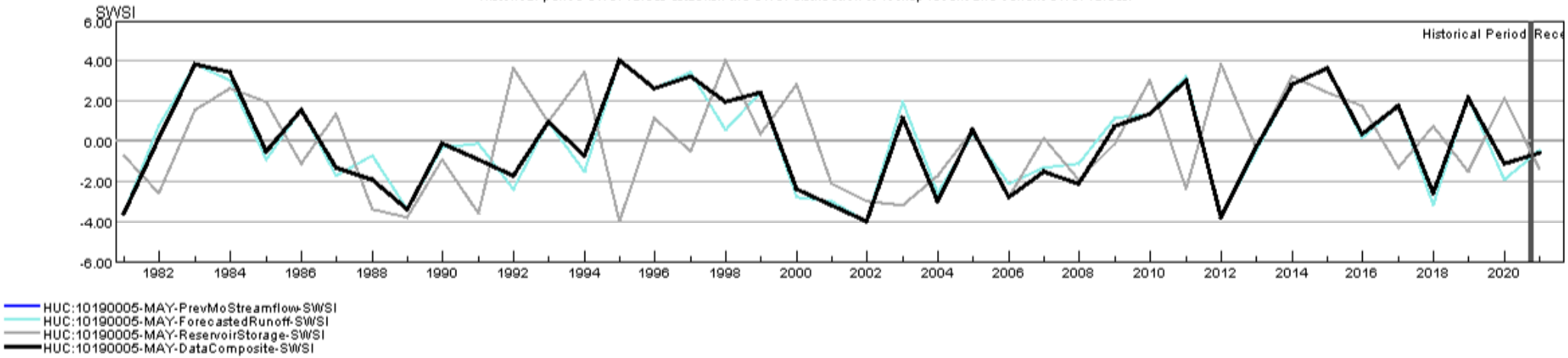
HUC 10190005 (St. Vrain) Surface Water Supply - MAY

Monthly component volumes



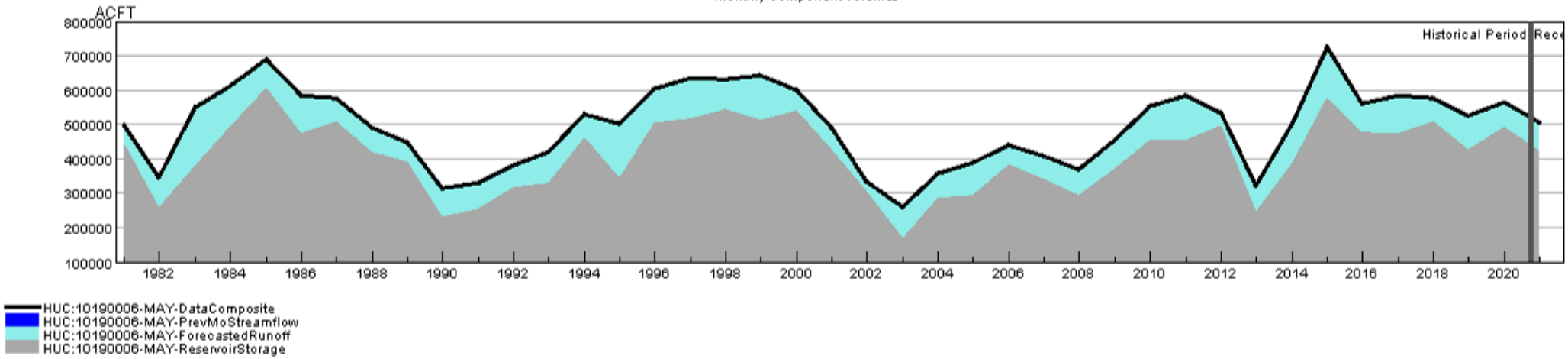
HUC 10190005 (St. Vrain) SWSI Values - MAY

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



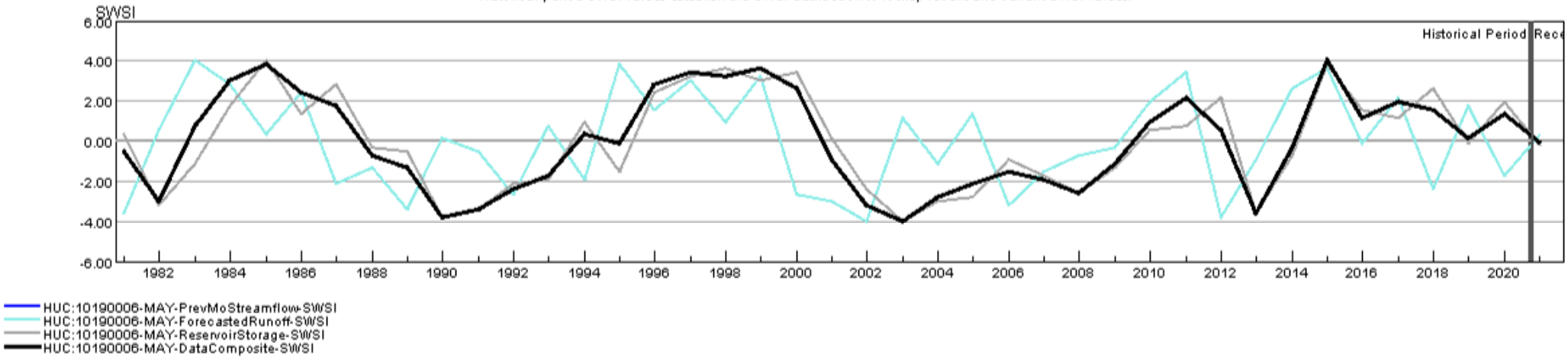
HUC 10190006 (Big Thompson) Surface Water Supply - MAY

Monthly component volumes



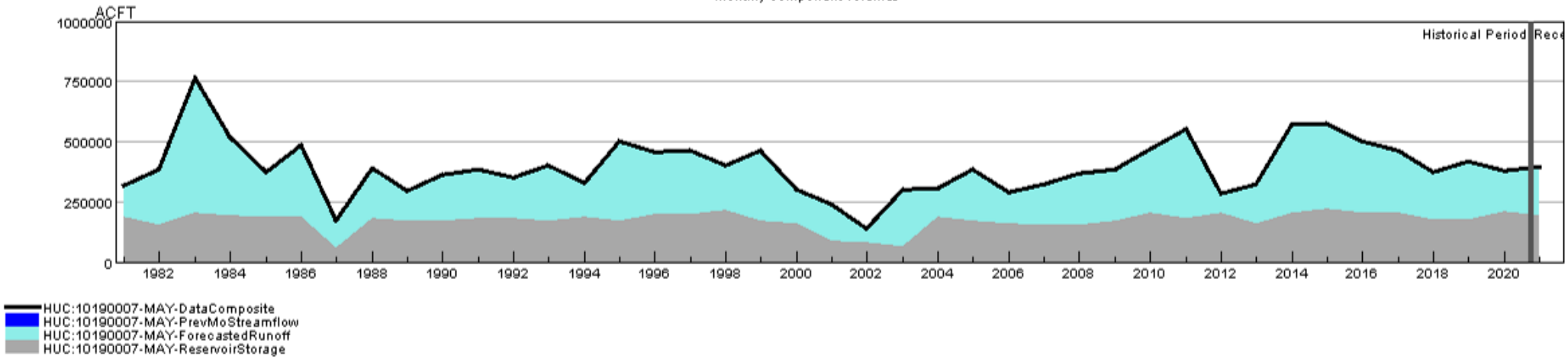
HUC 10190006 (Big Thompson) SWSI Values - MAY

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



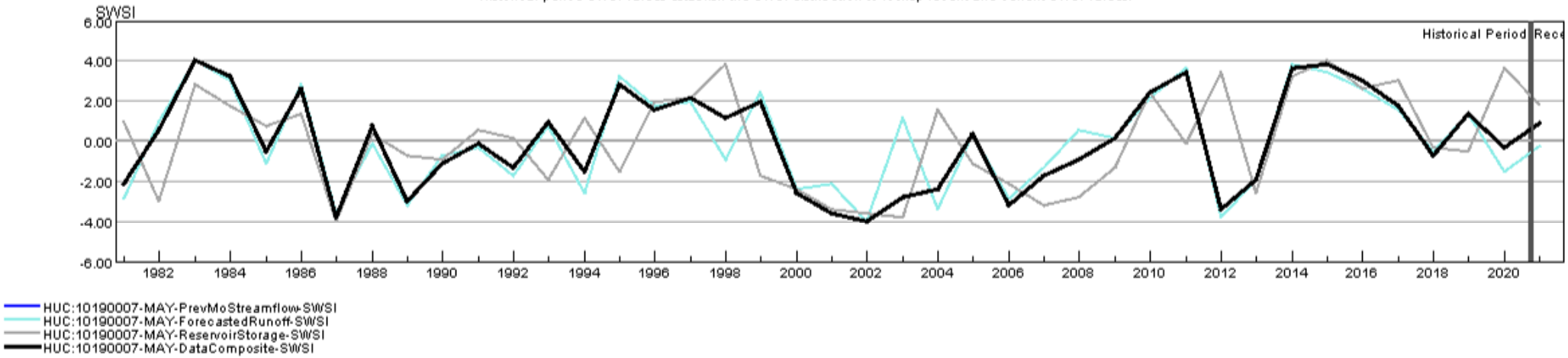
HUC 10190007 (Cache La Poudre) Surface Water Supply - MAY

Monthly component volumes



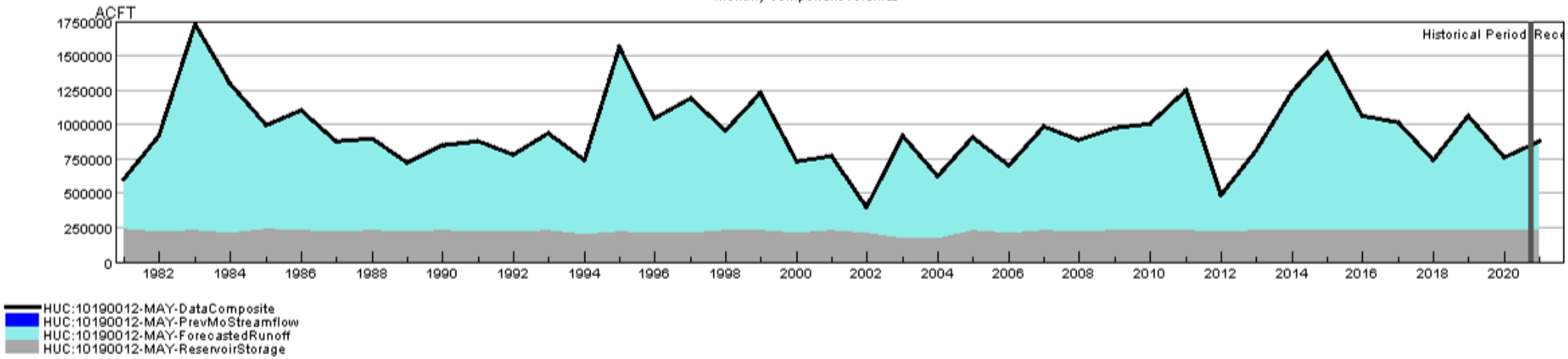
HUC 10190007 (Cache La Poudre) SWSI Values - MAY

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



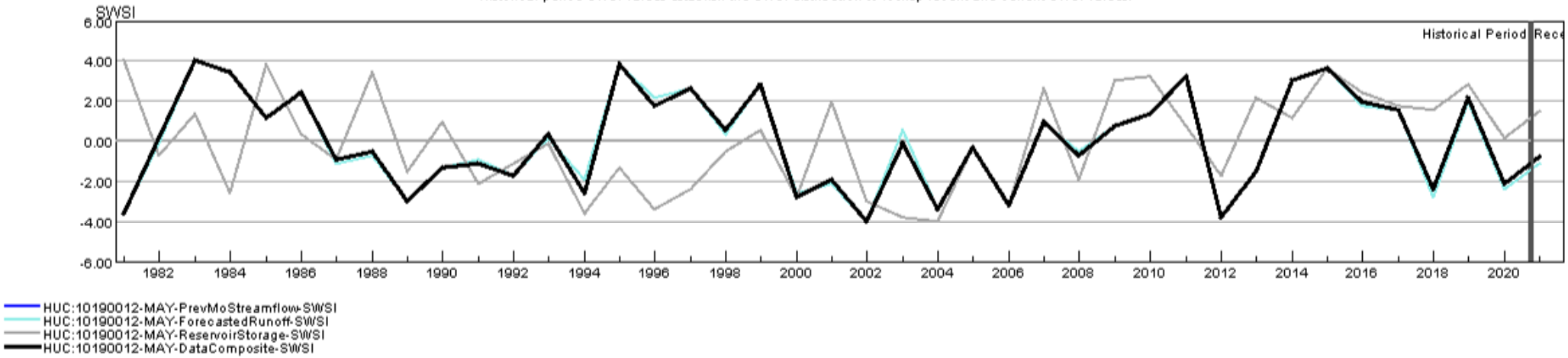
HUC 10190012 (Middle South Platte-Sterling) Surface Water Supply - MAY

Monthly component volumes



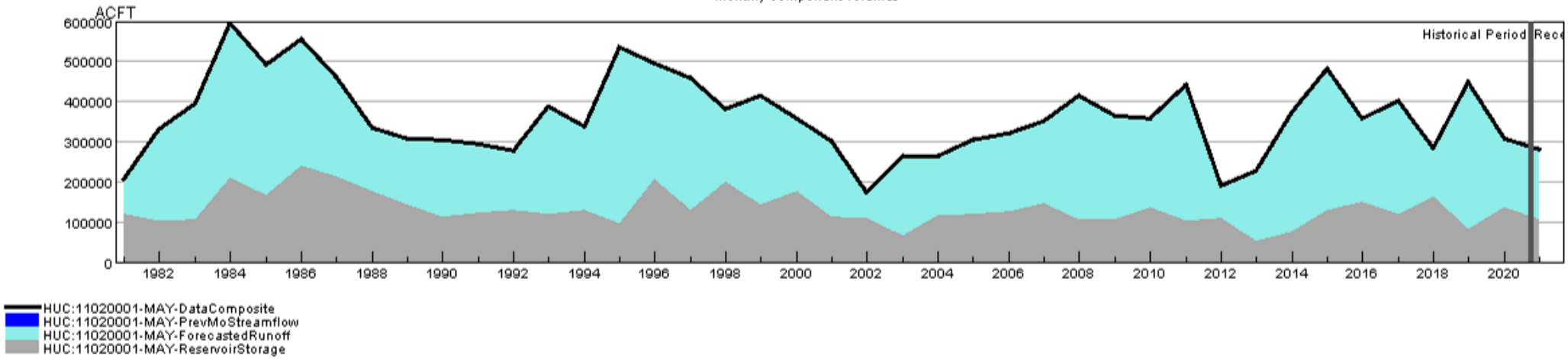
HUC 10190012 (Middle South Platte-Sterling) SWSI Values - MAY

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



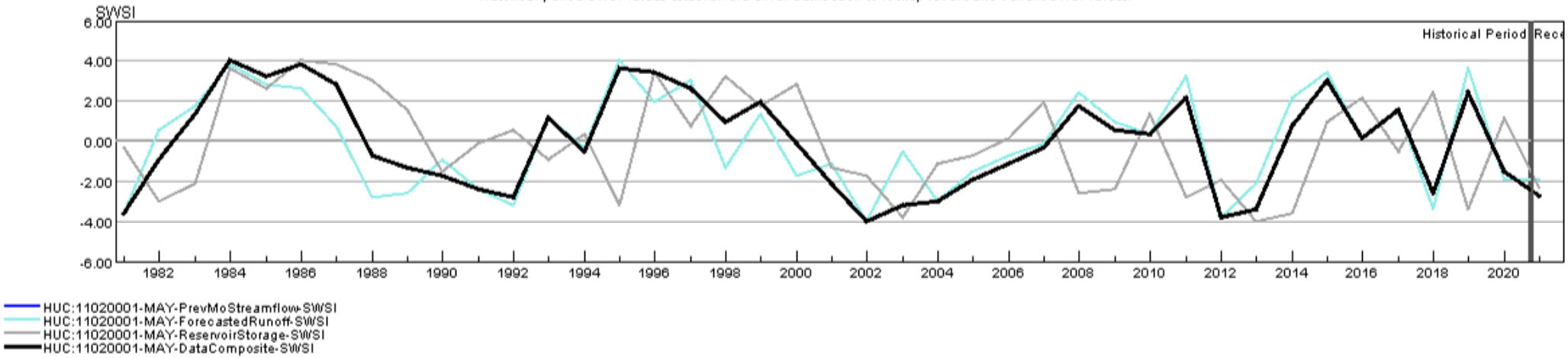
HUC 11020001 (Arkansas Headwaters) Surface Water Supply - MAY

Monthly component volumes



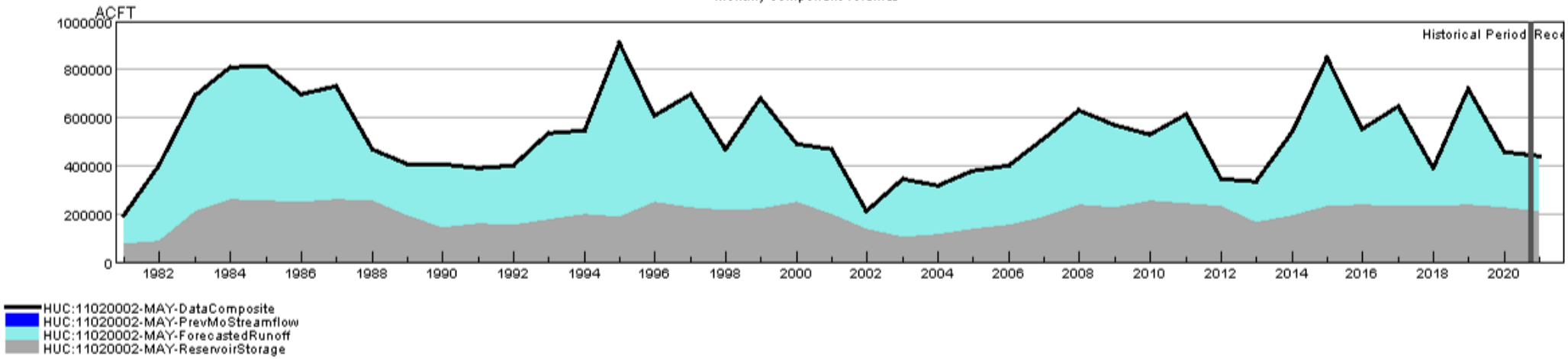
HUC 11020001 (Arkansas Headwaters) SWSI Values - MAY

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



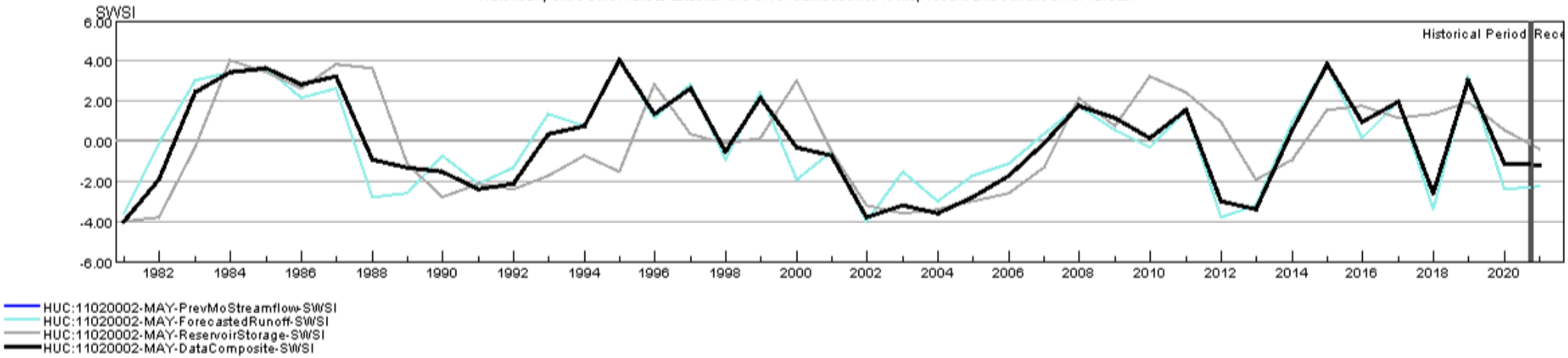
HUC 11020002 (Upper Arkansas) Surface Water Supply - MAY

Monthly component volumes



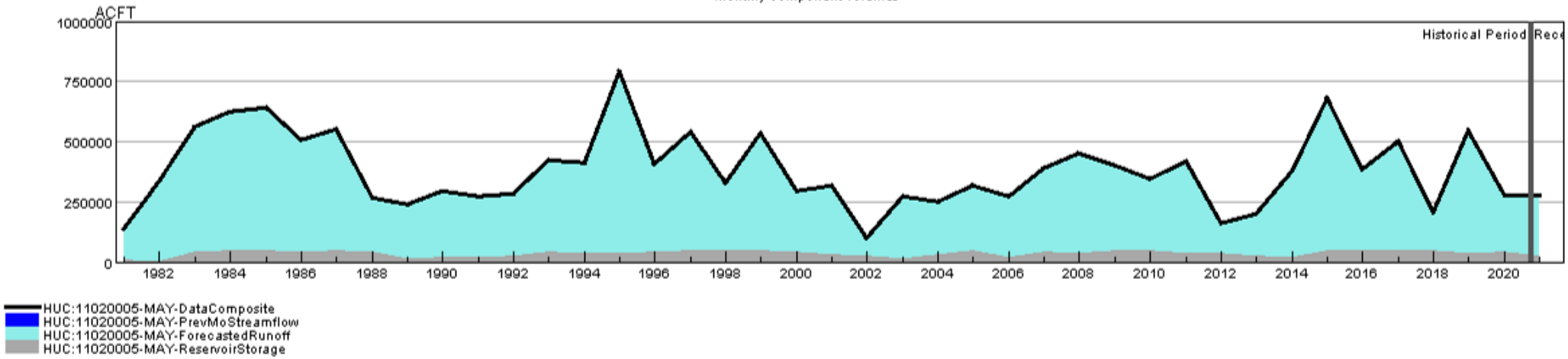
HUC 11020002 (Upper Arkansas) SWSI Values - MAY

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



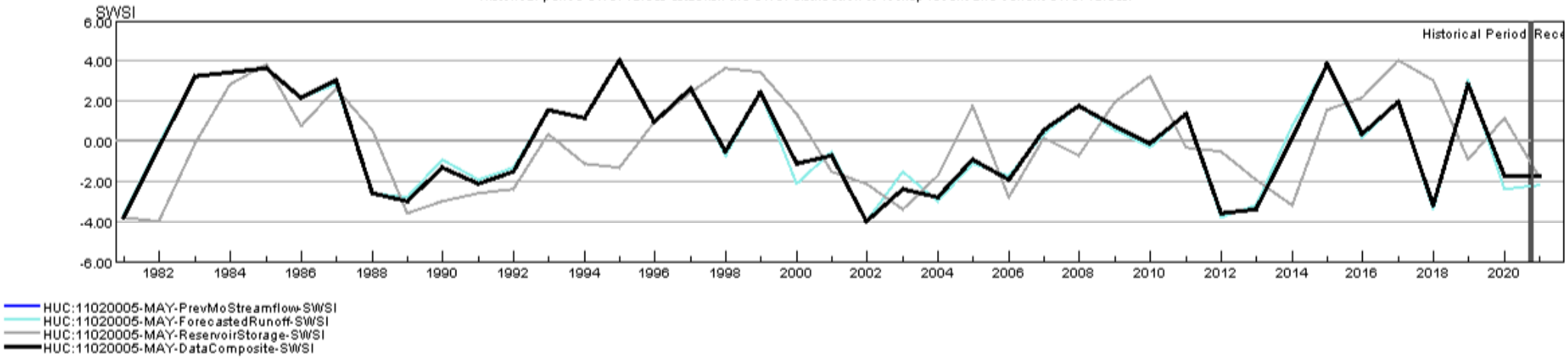
HUC 11020005 (Upper Arkansas-Lake Meredith) Surface Water Supply - MAY

Monthly component volumes



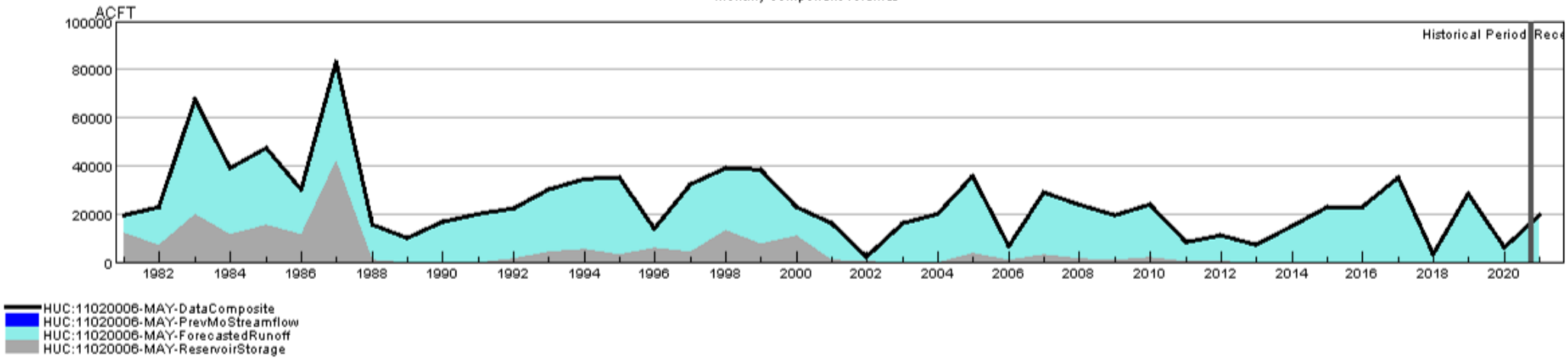
HUC 11020005 (Upper Arkansas-Lake Meredith) SWSI Values - MAY

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



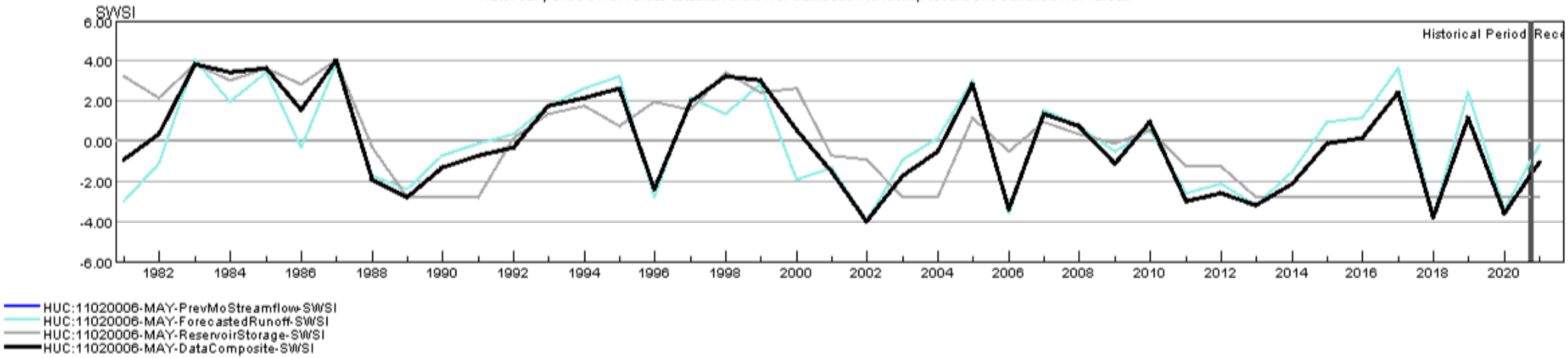
HUC 11020006 (Huerfano) Surface Water Supply - MAY

Monthly component volumes



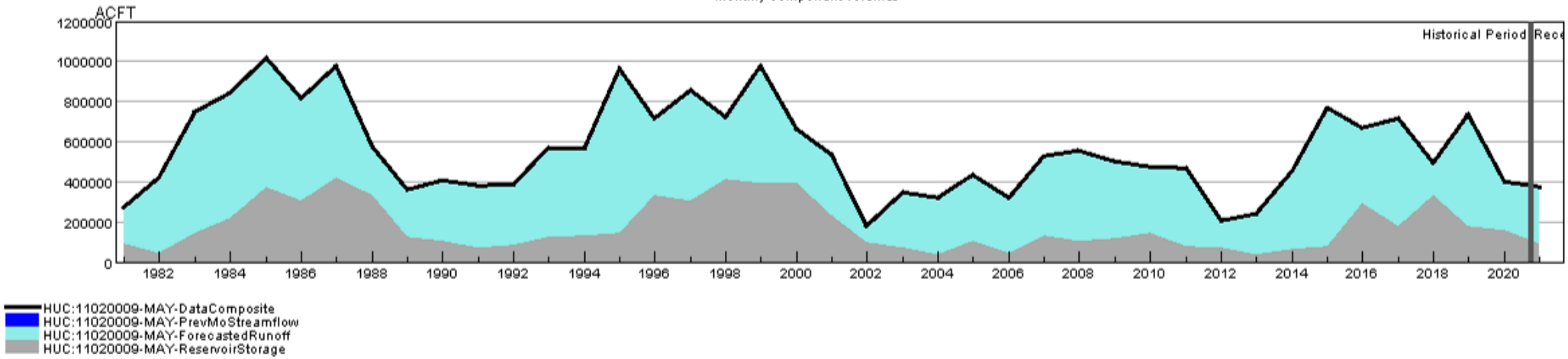
HUC 11020006 (Huerfano) SWSI Values - MAY

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



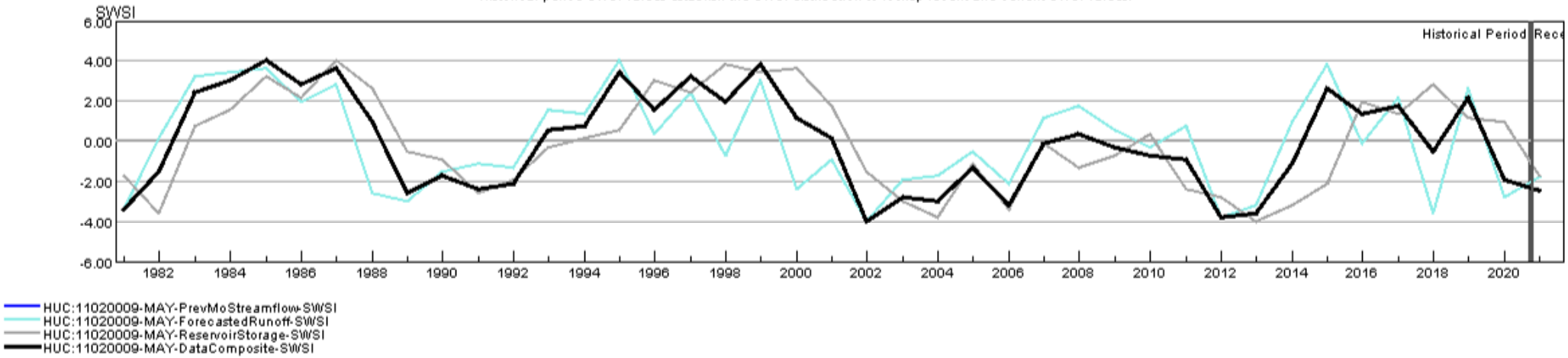
HUC 11020009 (Upper Arkansas-John Martin Reservoir) Surface Water Supply - MAY

Monthly component volumes



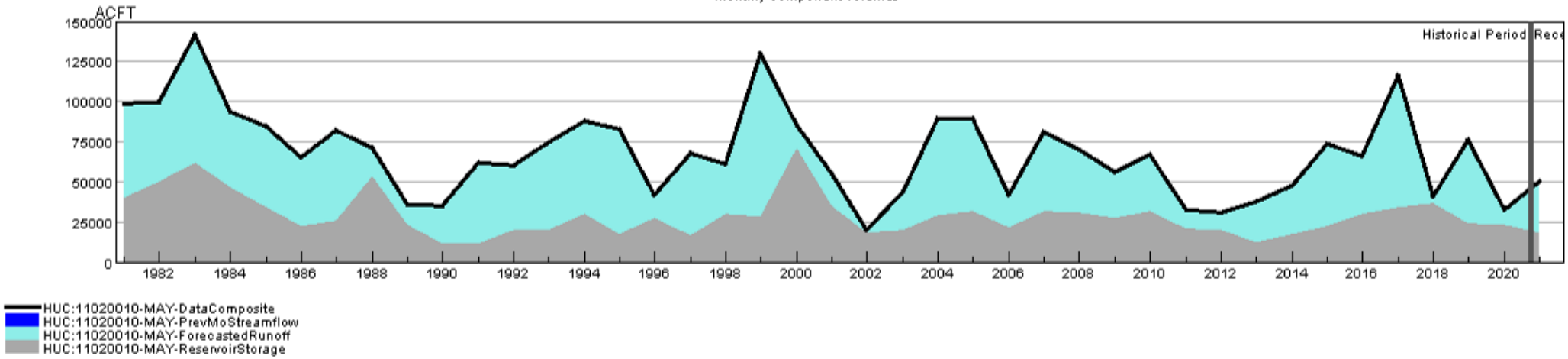
HUC 11020009 (Upper Arkansas-John Martin Reservoir) SWSI Values - MAY

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



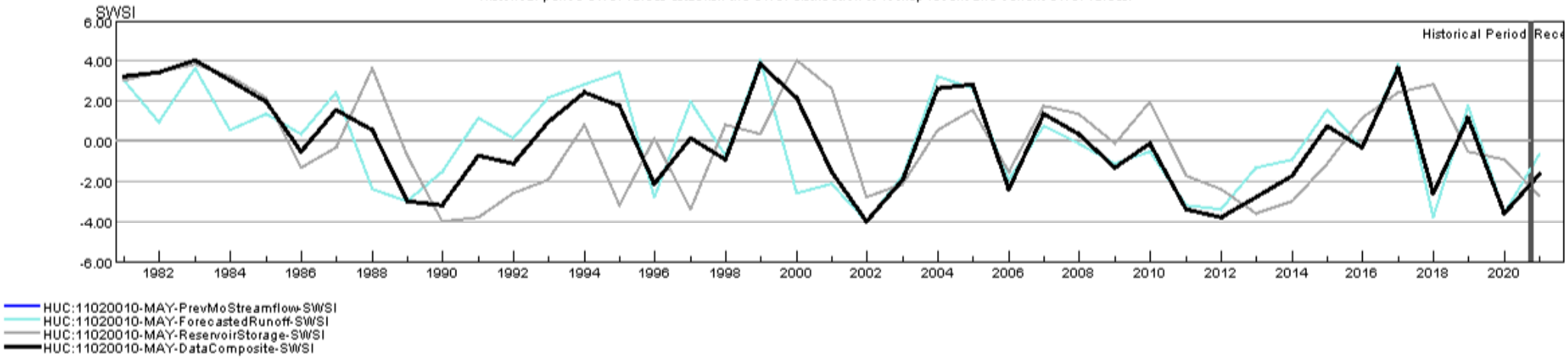
HUC 11020010 (Purgatoire) Surface Water Supply - MAY

Monthly component volumes



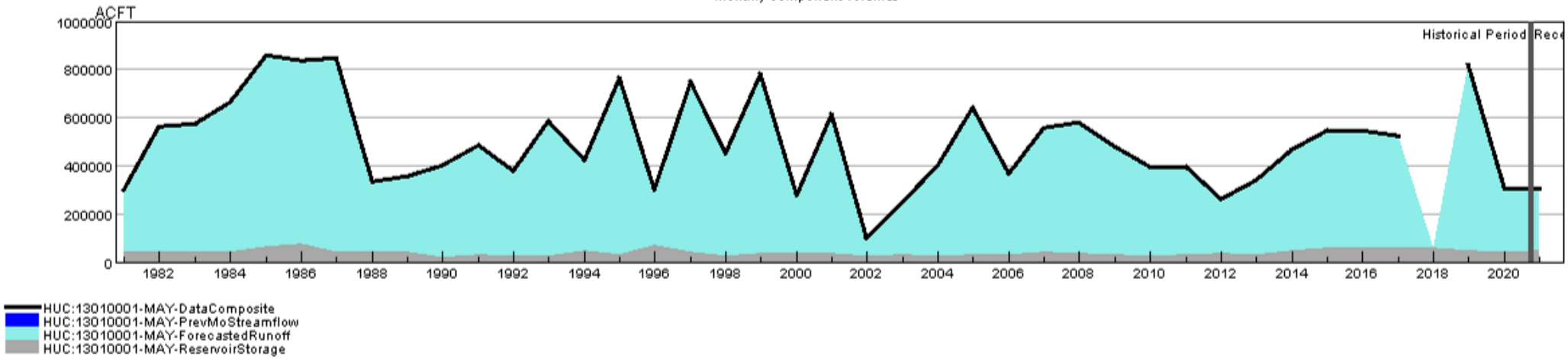
HUC 11020010 (Purgatoire) SWSI Values - MAY

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



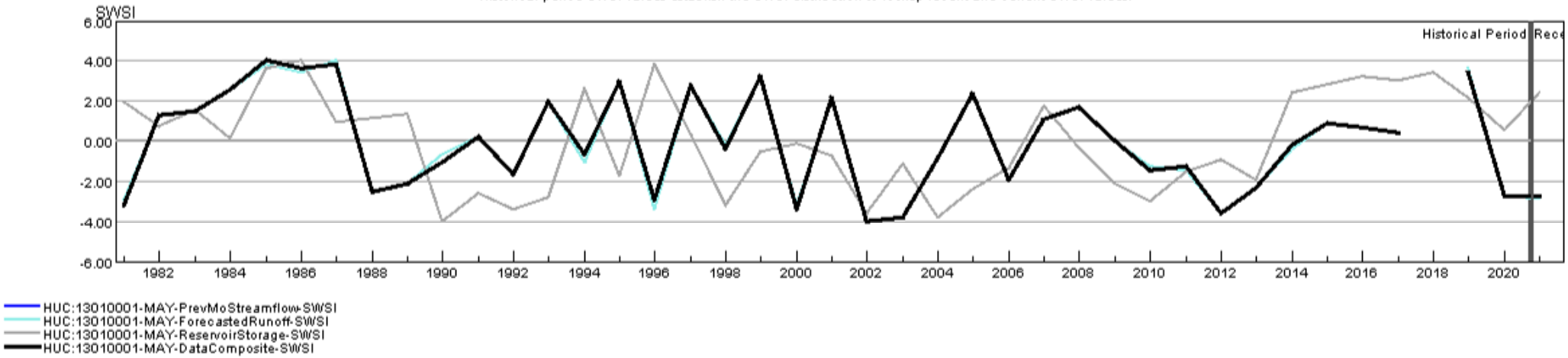
HUC 13010001 (Rio Grande Headwaters) Surface Water Supply - MAY

Monthly component volumes



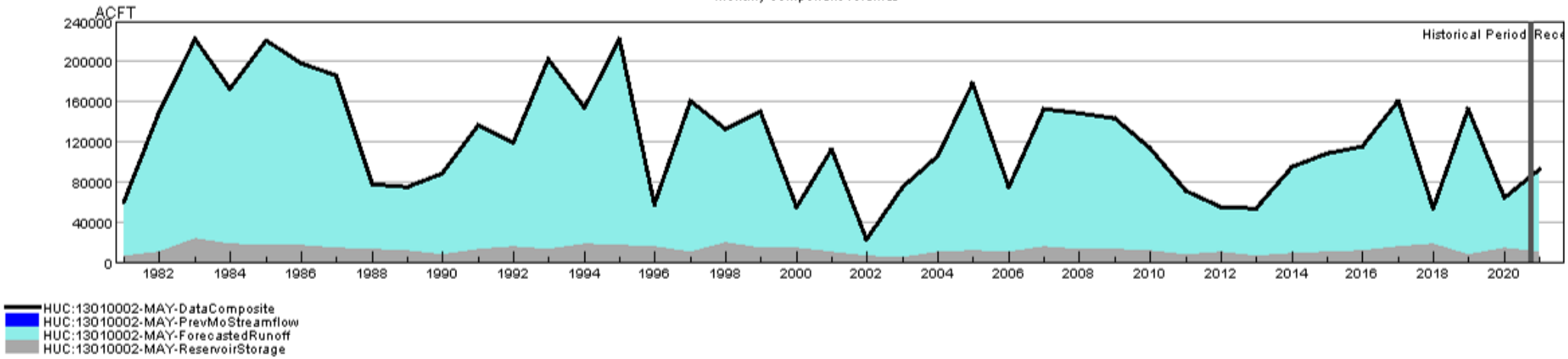
HUC 13010001 (Rio Grande Headwaters) SWSI Values - MAY

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



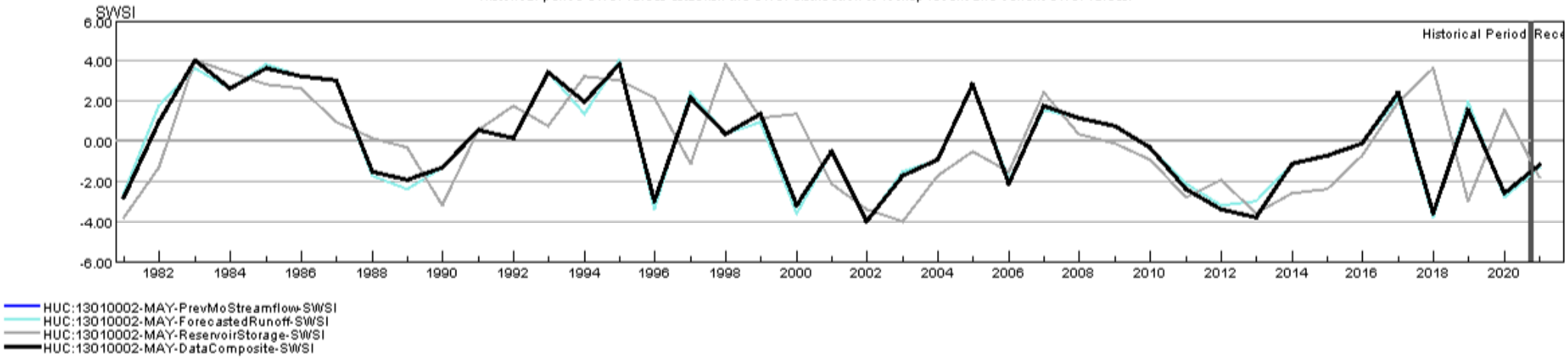
HUC 13010002 (Alamosa-Trinchera) Surface Water Supply - MAY

Monthly component volumes



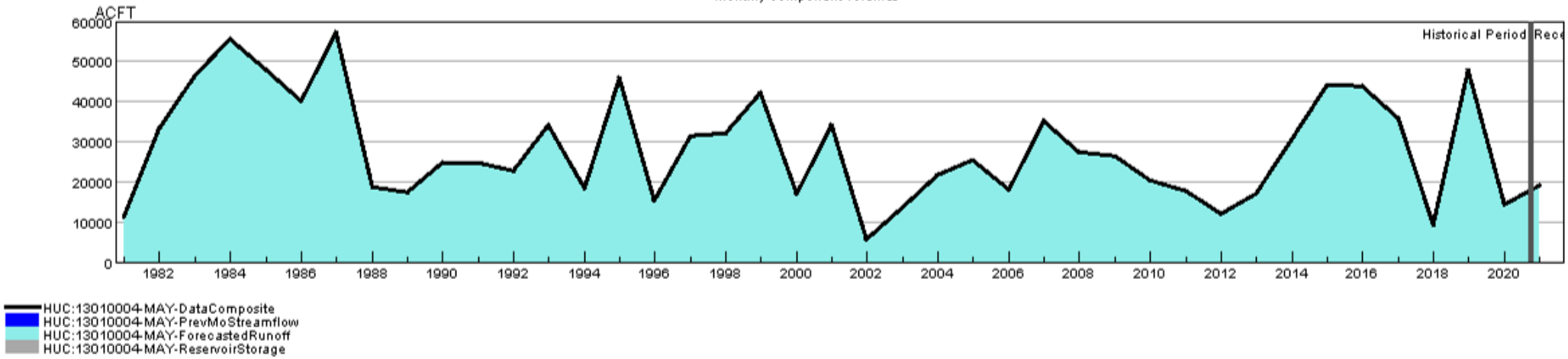
HUC 13010002 (Alamosa-Trinchera) SWSI Values - MAY

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



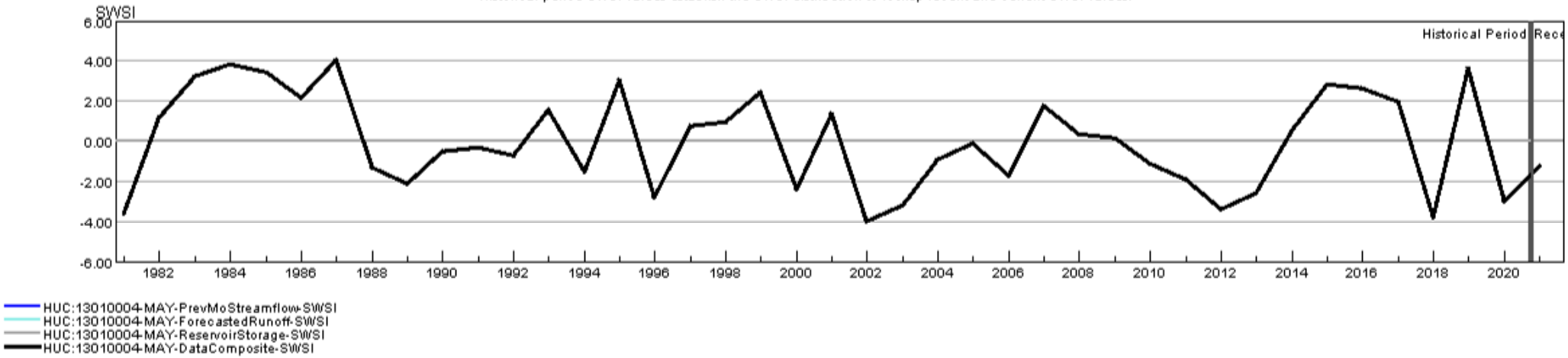
HUC 13010004 (Saguache) Surface Water Supply - MAY

Monthly component volumes



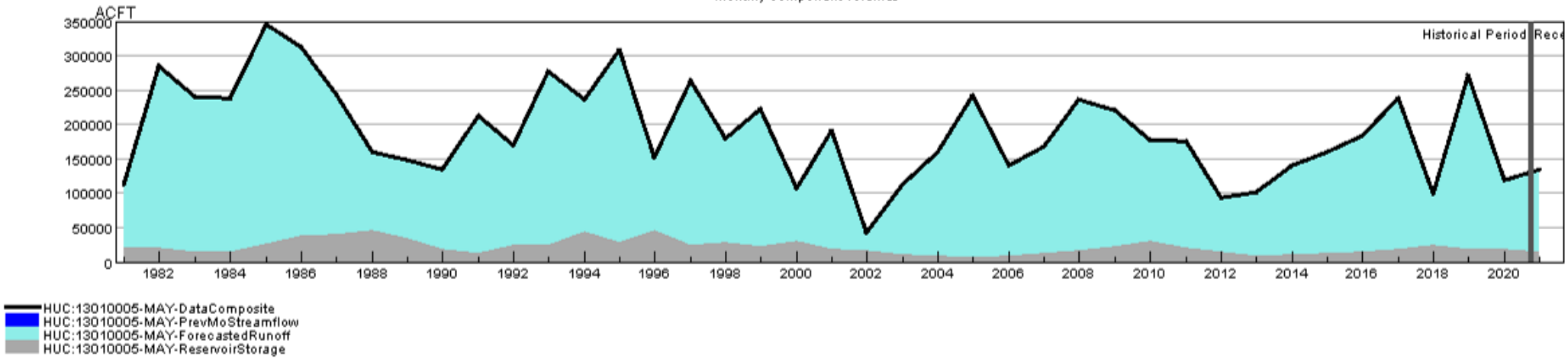
HUC 13010004 (Saguache) SWSI Values - MAY

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



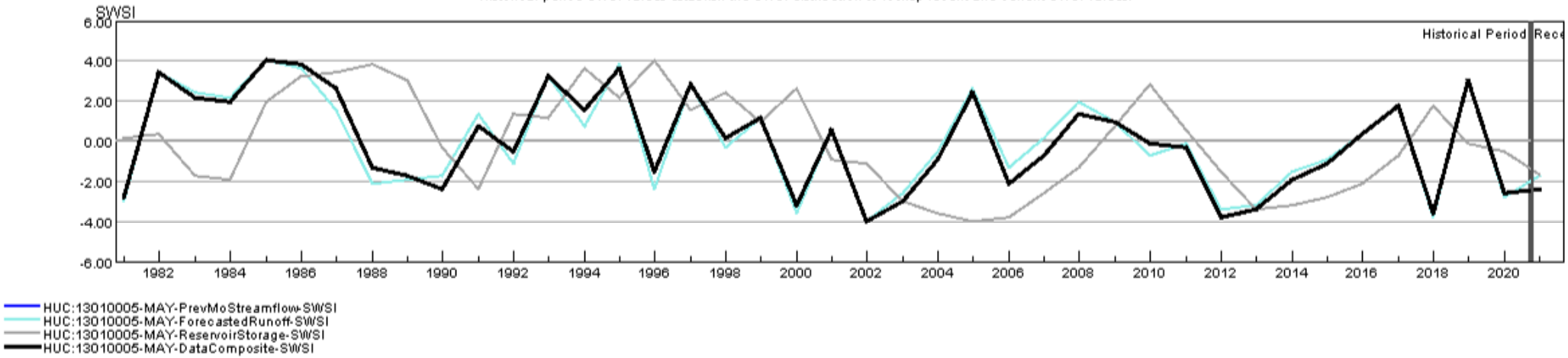
HUC 13010005 (Conejos) Surface Water Supply - MAY

Monthly component volumes



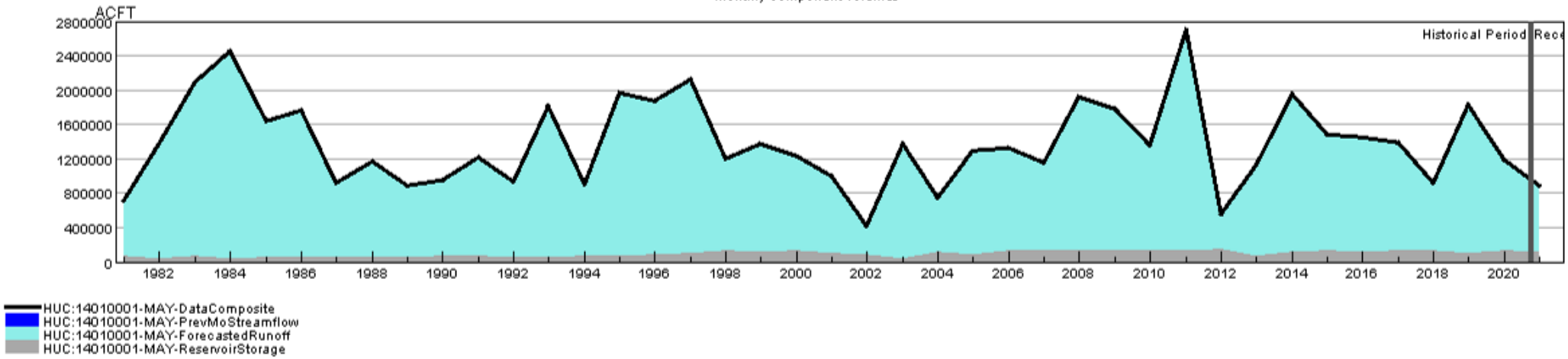
HUC 13010005 (Conejos) SWSI Values - MAY

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



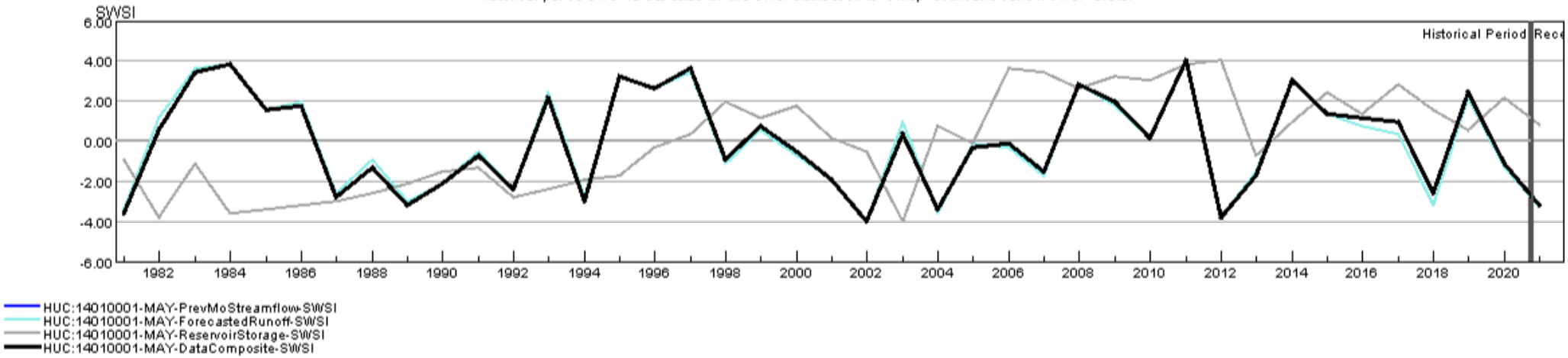
HUC 14010001 (Colorado Headwaters) Surface Water Supply - MAY

Monthly component volumes



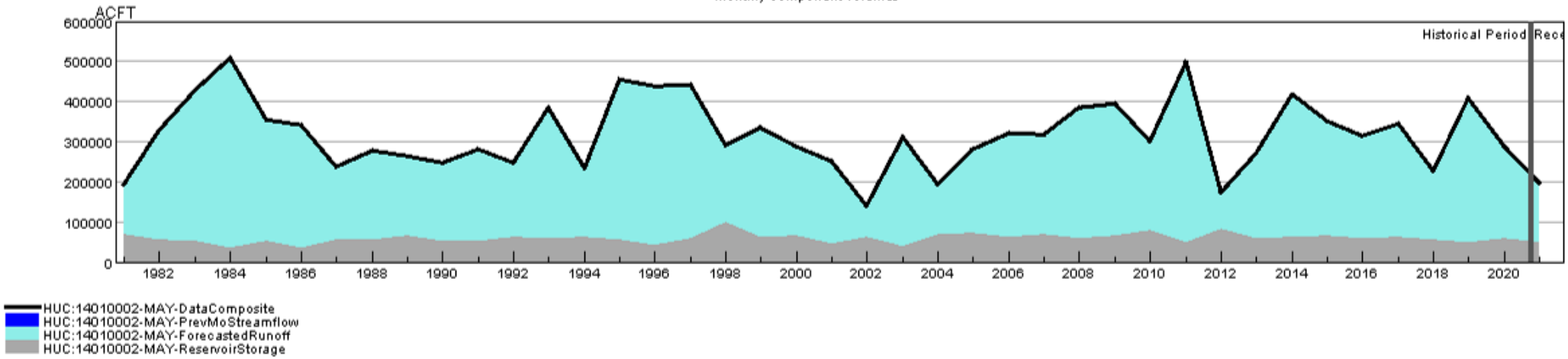
HUC 14010001 (Colorado Headwaters) SWSI Values - MAY

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



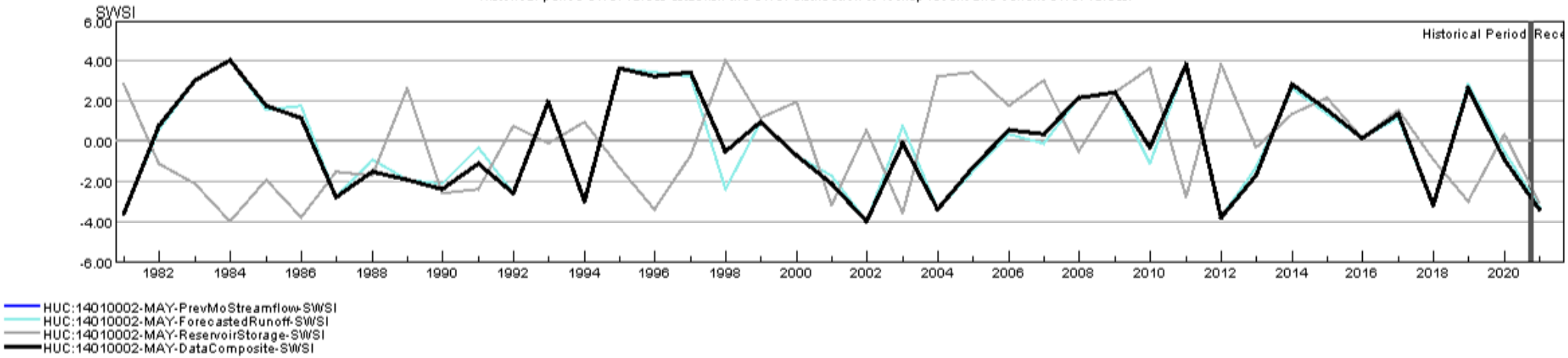
HUC 14010002 (Blue) Surface Water Supply - MAY

Monthly component volumes



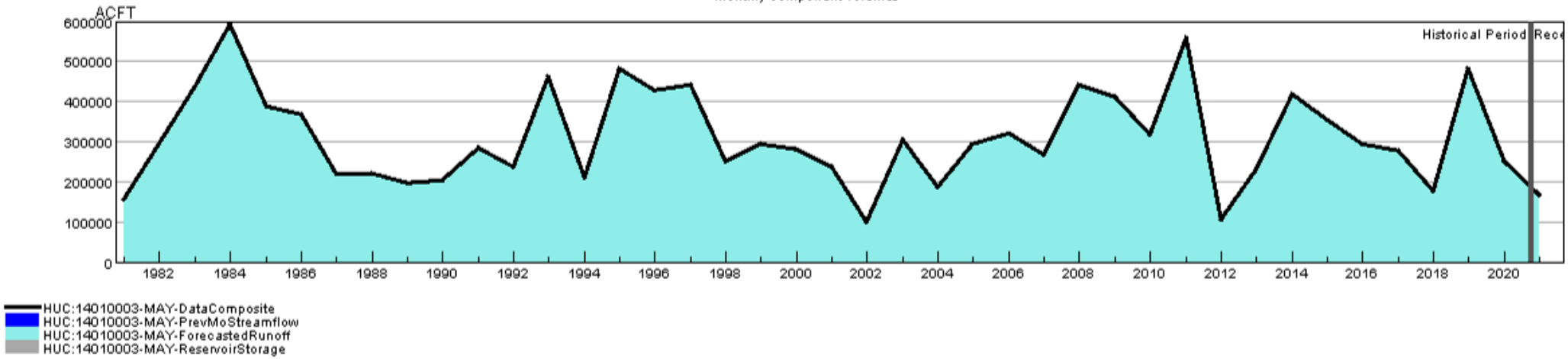
HUC 14010002 (Blue) SWSI Values - MAY

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



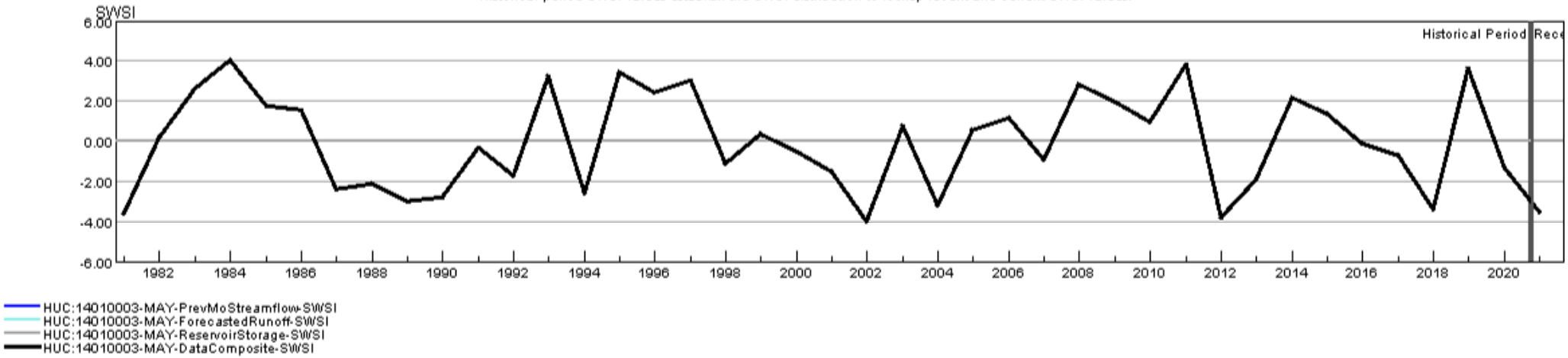
HUC 14010003 (Eagle) Surface Water Supply - MAY

Monthly component volumes



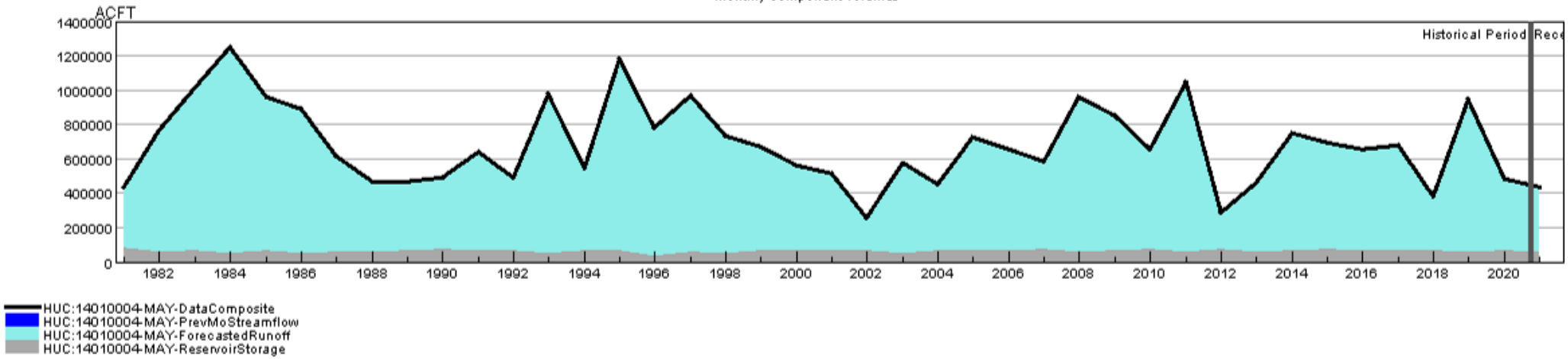
HUC 14010003 (Eagle) SWSI Values - MAY

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



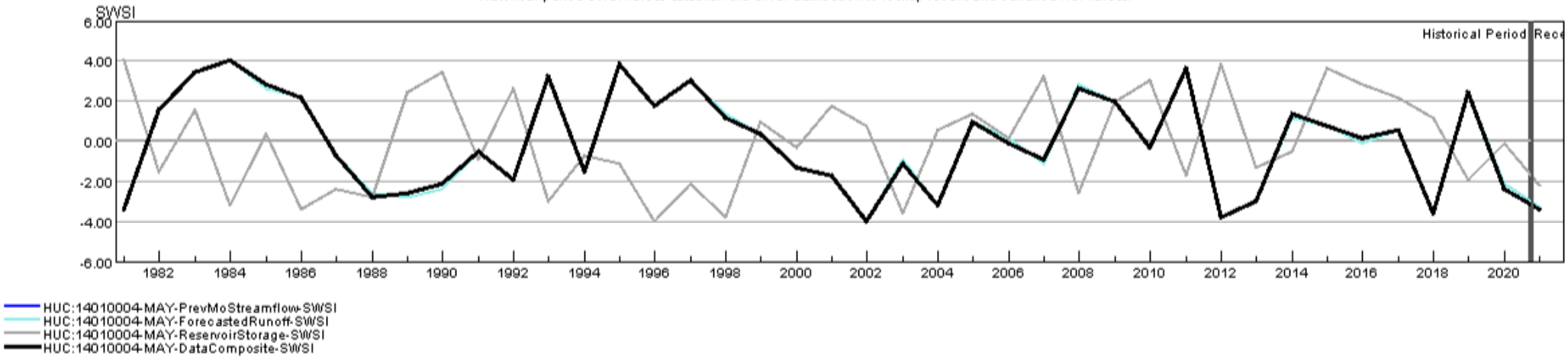
HUC 14010004 (Roaring Fork) Surface Water Supply - MAY

Monthly component volumes



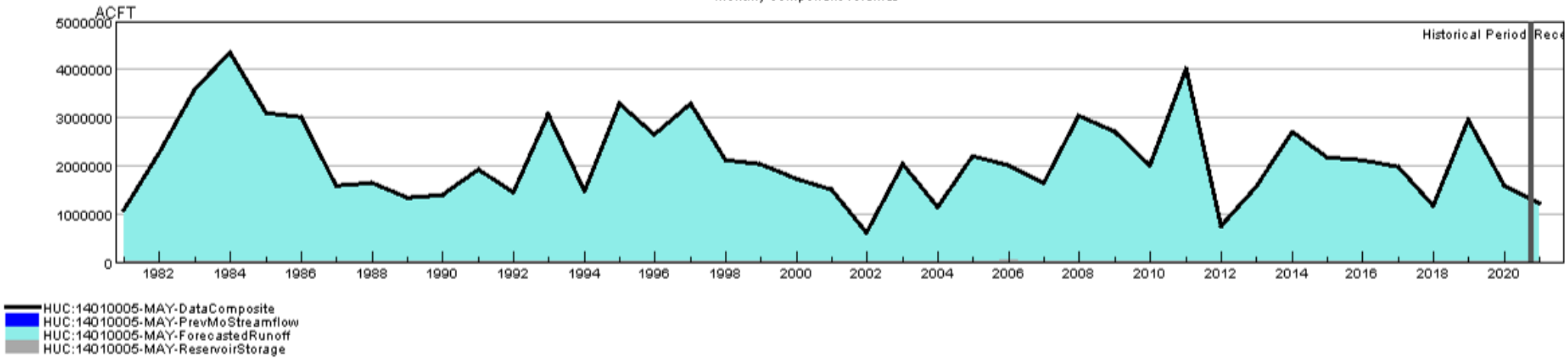
HUC 14010004 (Roaring Fork) SWSI Values - MAY

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



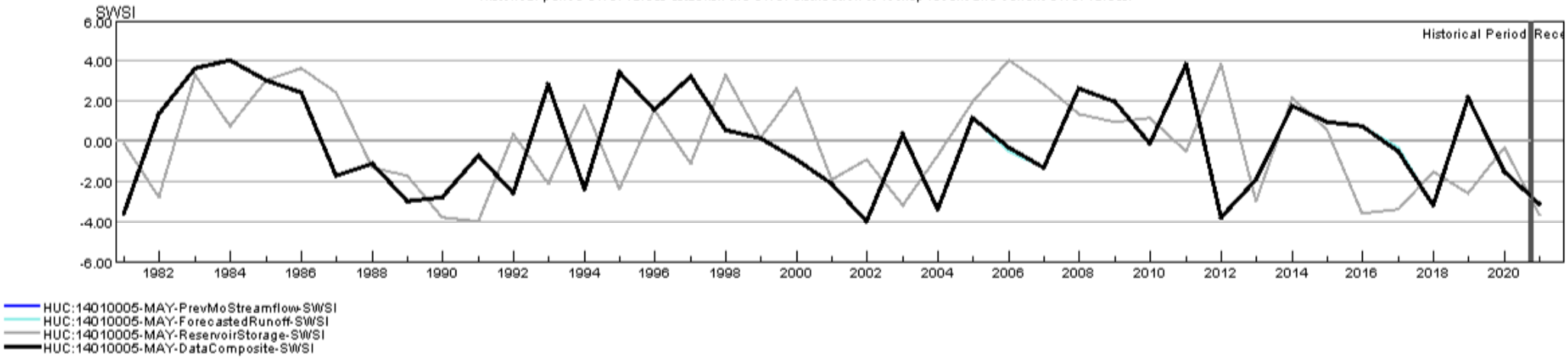
HUC 14010005 (Colorado Headwaters-Plateau) Surface Water Supply - MAY

Monthly component volumes



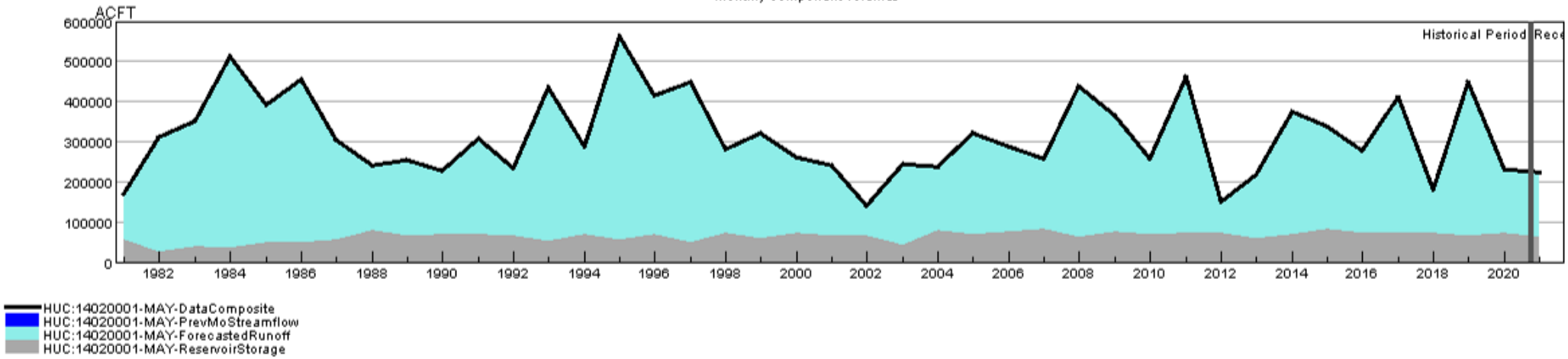
HUC 14010005 (Colorado Headwaters-Plateau) SWSI Values - MAY

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



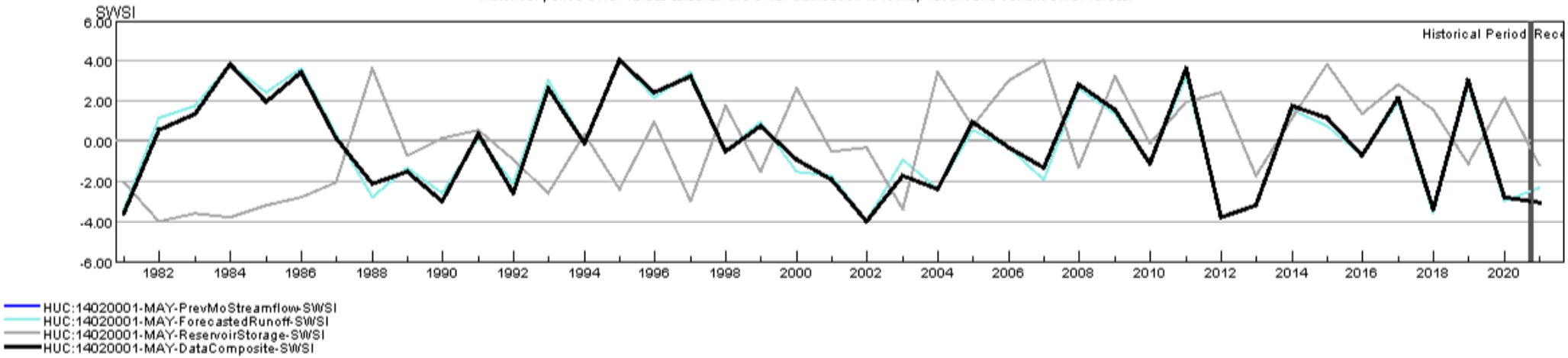
HUC 14020001 (East-Taylor) Surface Water Supply - MAY

Monthly component volumes



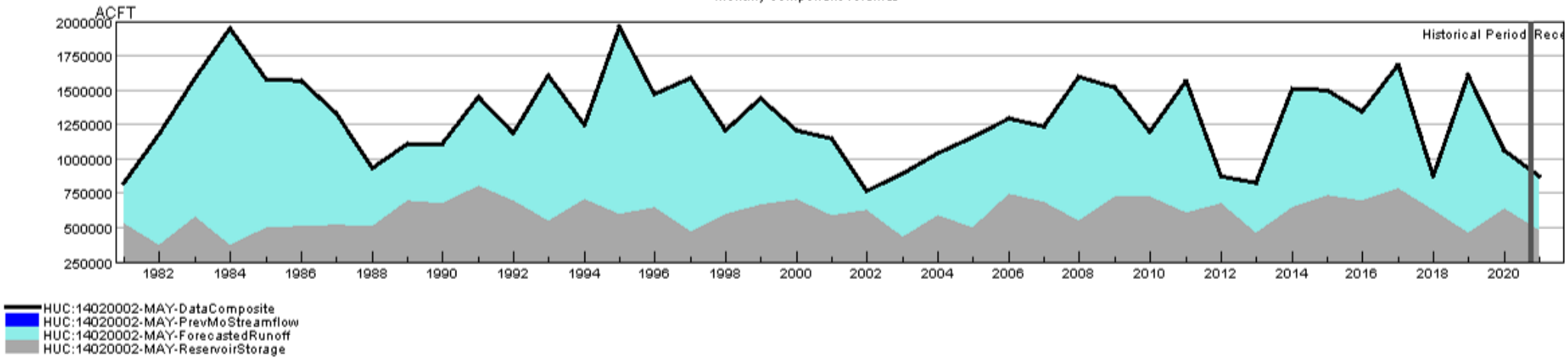
HUC 14020001 (East-Taylor) SWSI Values - MAY

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



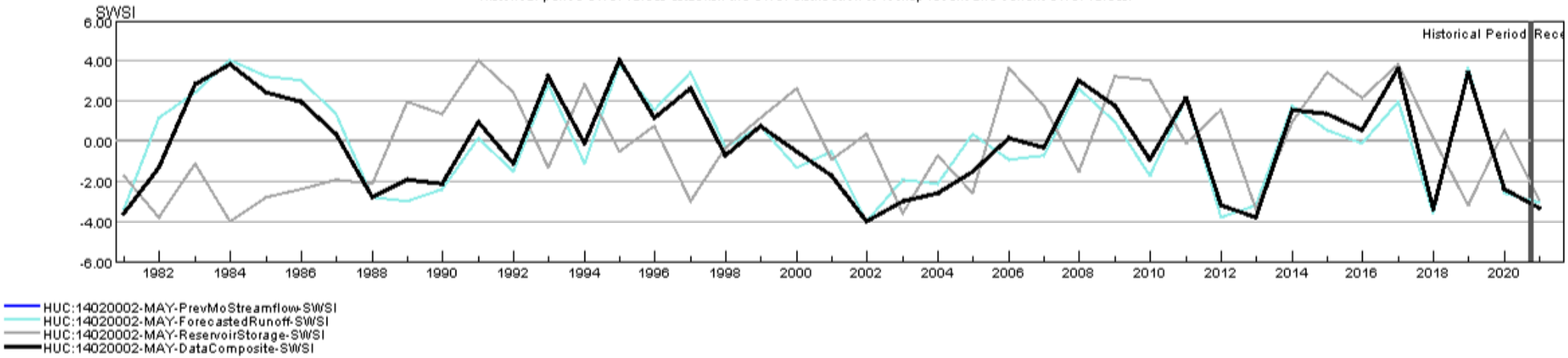
HUC 14020002 (Upper Gunnison) Surface Water Supply - MAY

Monthly component volumes



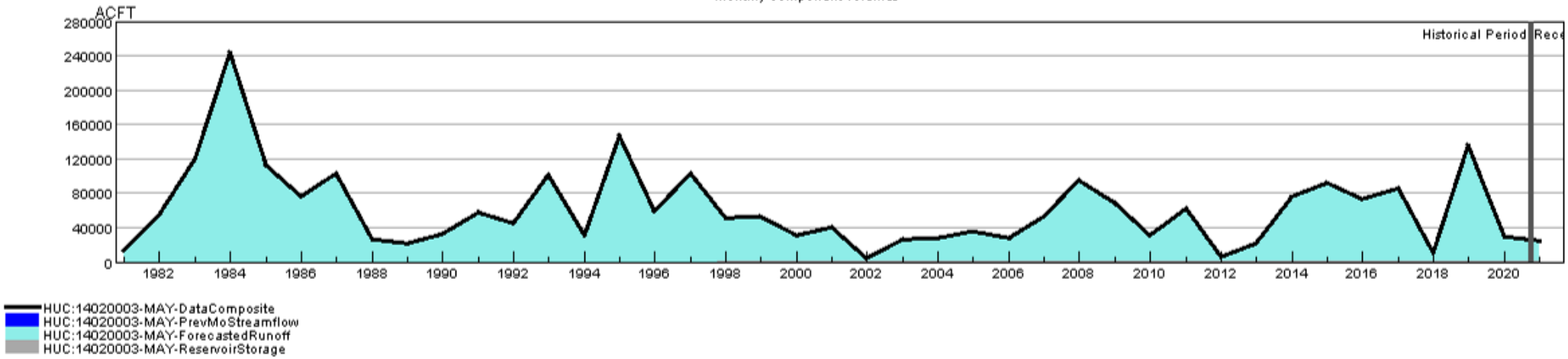
HUC 14020002 (Upper Gunnison) SWSI Values - MAY

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



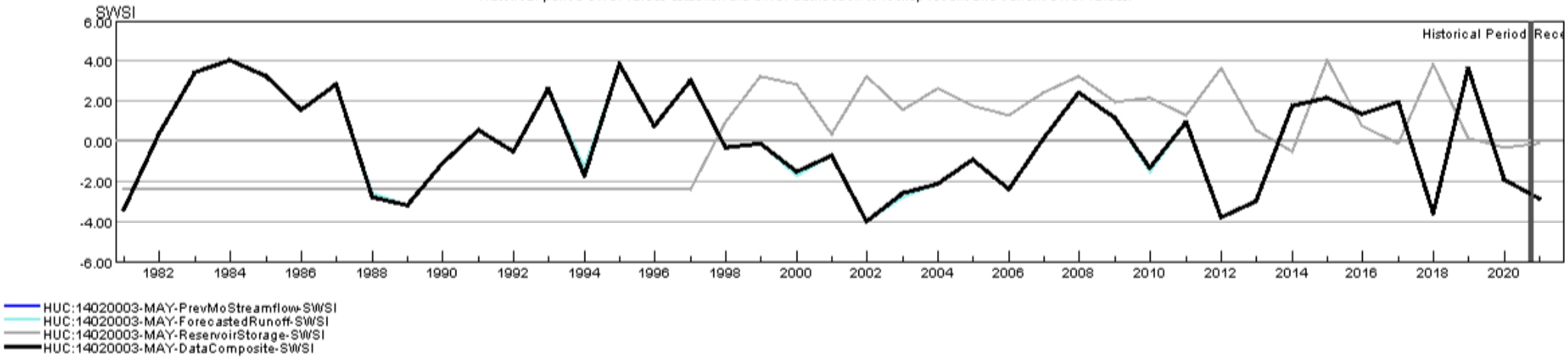
HUC 14020003 (Tomichi) Surface Water Supply - MAY

Monthly component volumes



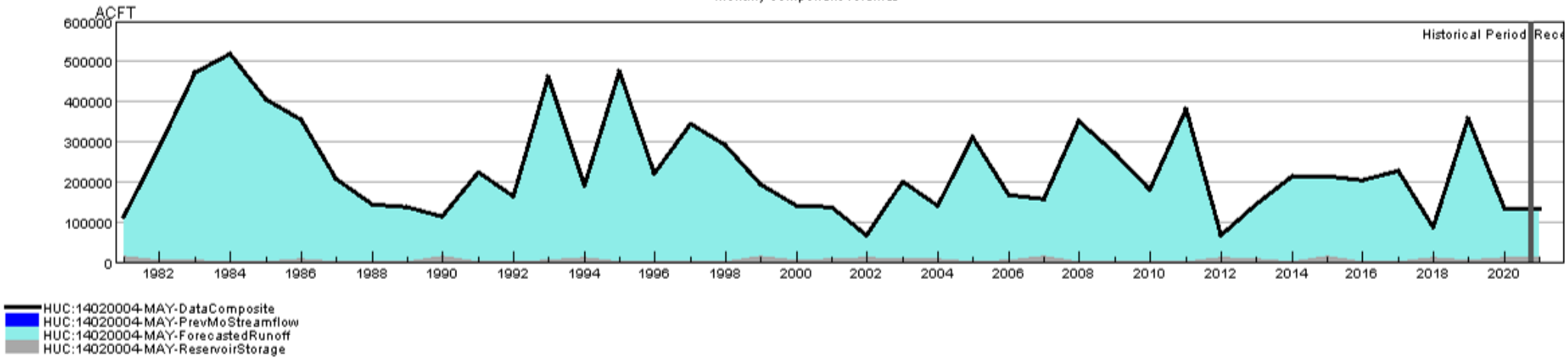
HUC 14020003 (Tomichi) SWSI Values - MAY

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



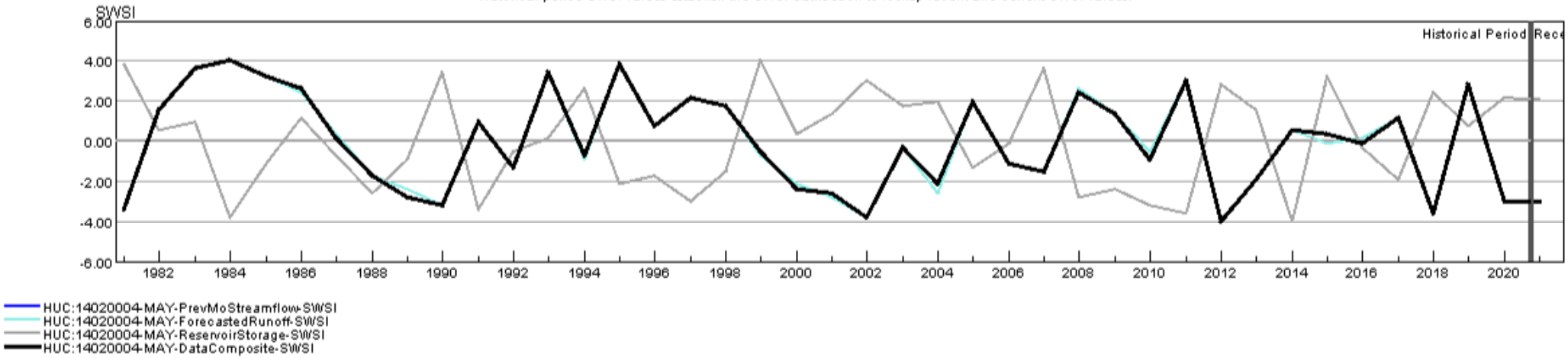
HUC 14020004 (North Fork Gunnison) Surface Water Supply - MAY

Monthly component volumes



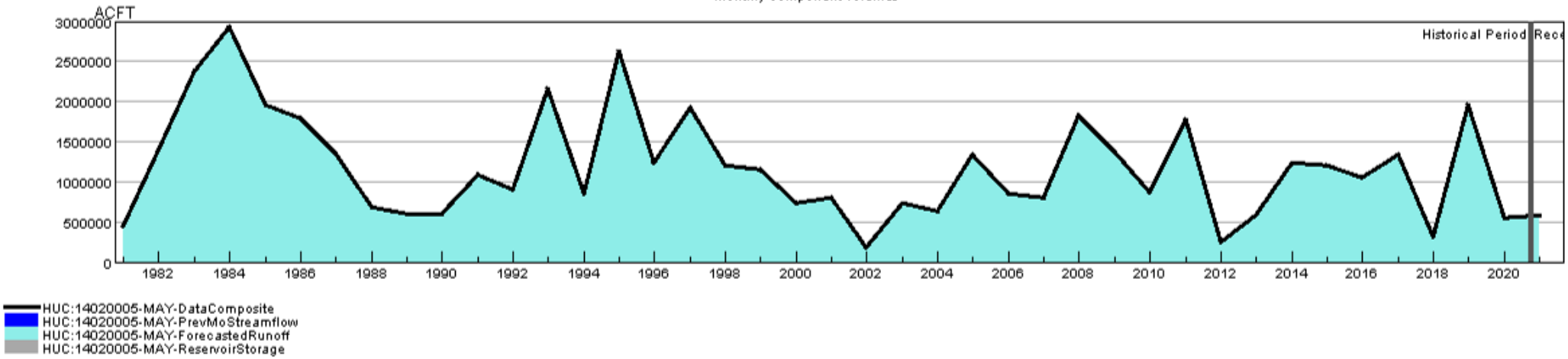
HUC 14020004 (North Fork Gunnison) SWSI Values - MAY

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



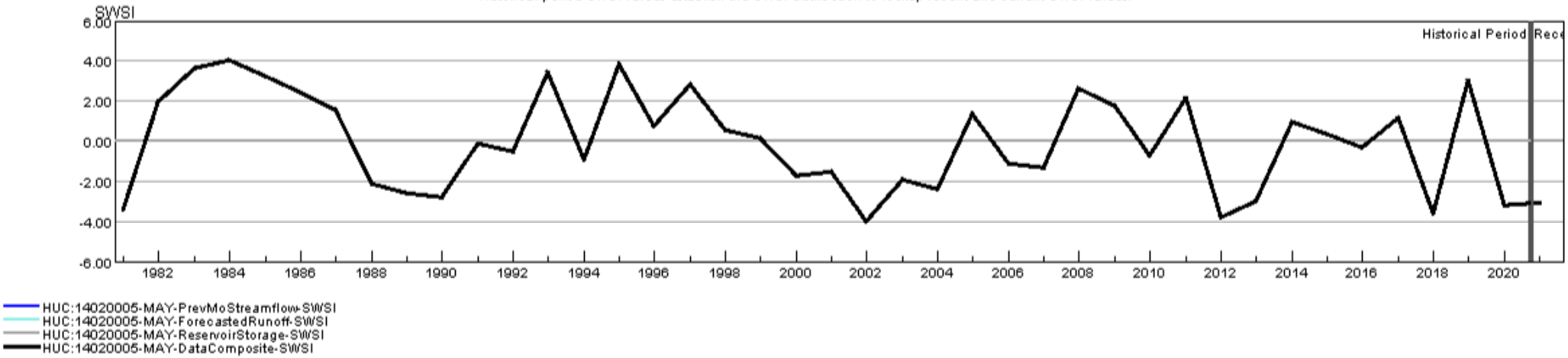
HUC 14020005 (Lower Gunnison) Surface Water Supply - MAY

Monthly component volumes



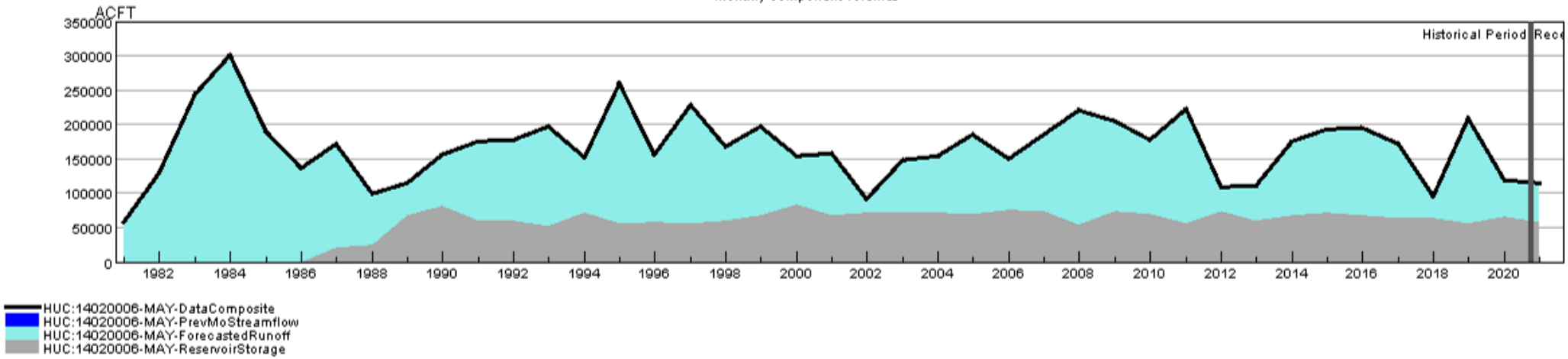
HUC 14020005 (Lower Gunnison) SWSI Values - MAY

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



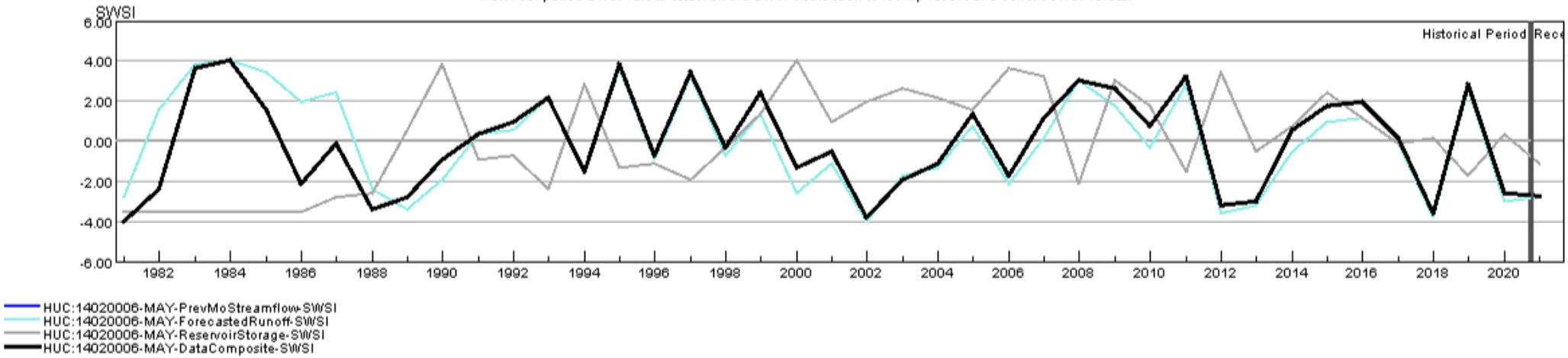
HUC 14020006 (Uncompahgre) Surface Water Supply - MAY

Monthly component volumes



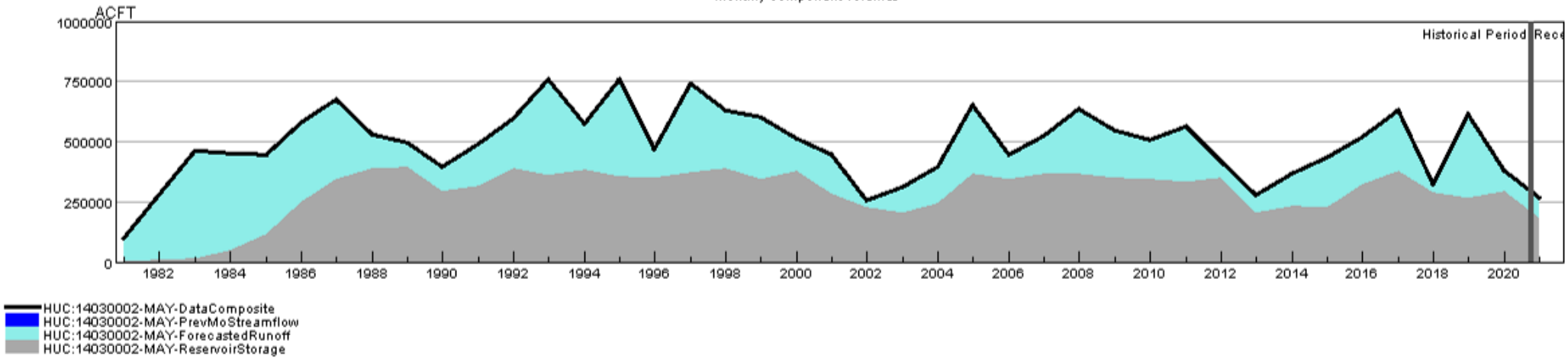
HUC 14020006 (Uncompahgre) SWSI Values - MAY

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



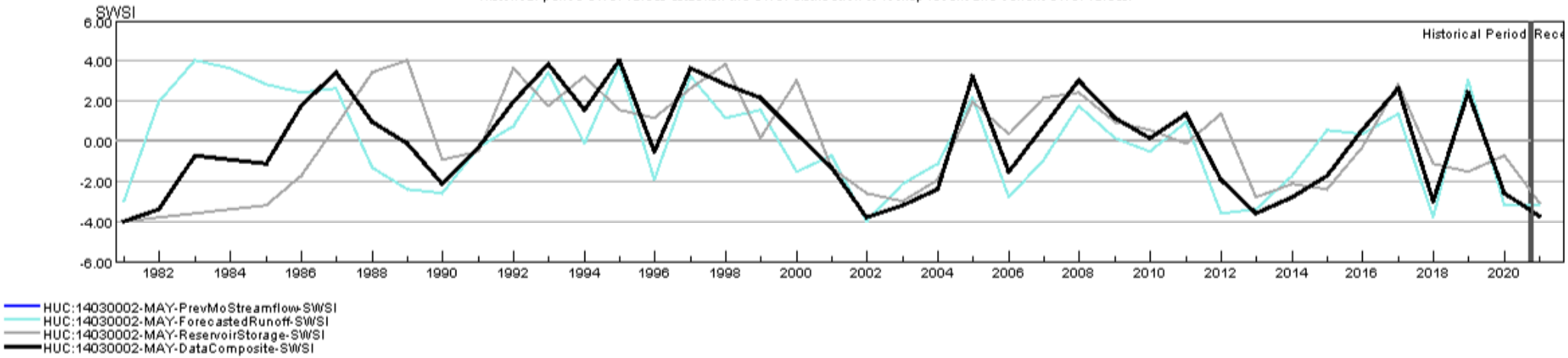
HUC 14030002 (Upper Dolores) Surface Water Supply - MAY

Monthly component volumes



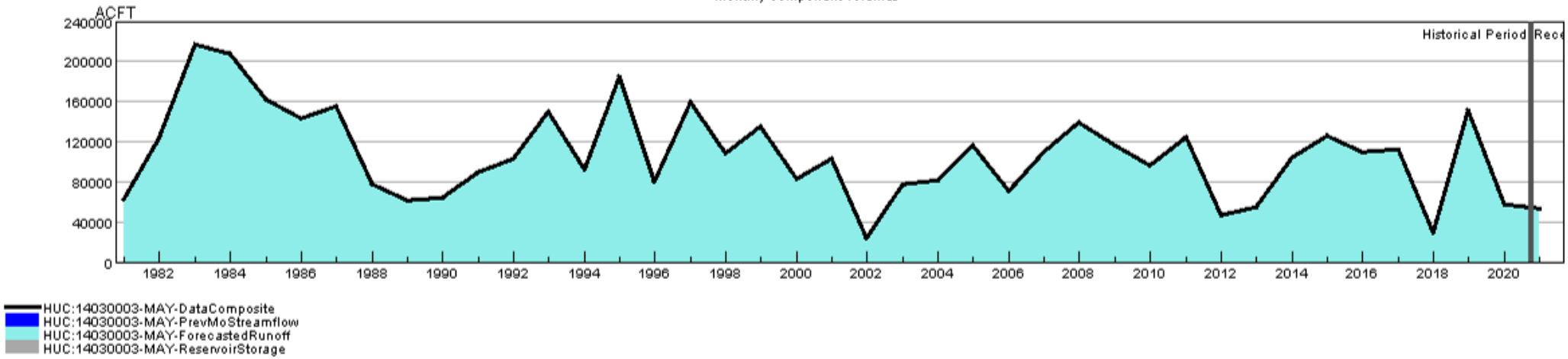
HUC 14030002 (Upper Dolores) SWSI Values - MAY

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



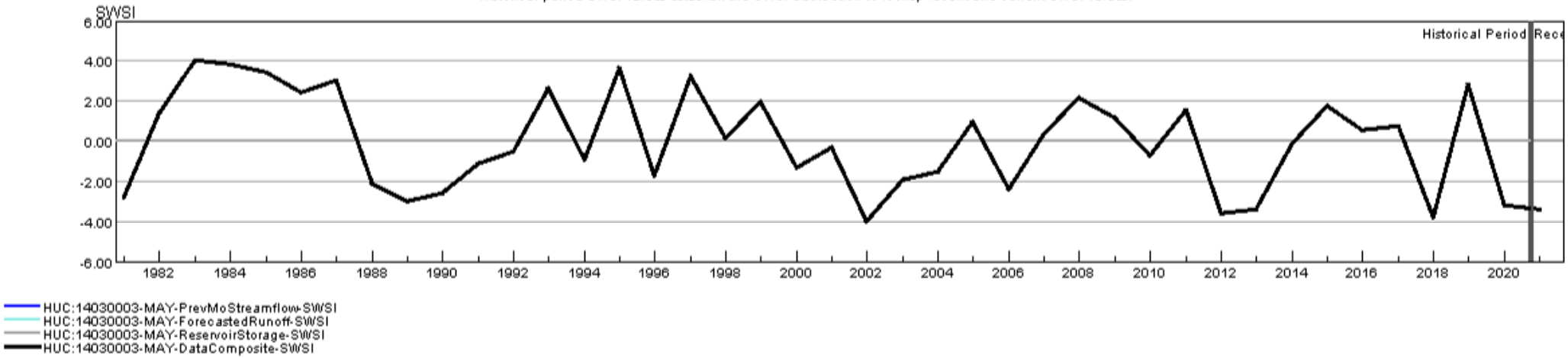
HUC 14030003 (San Miguel) Surface Water Supply - MAY

Monthly component volumes



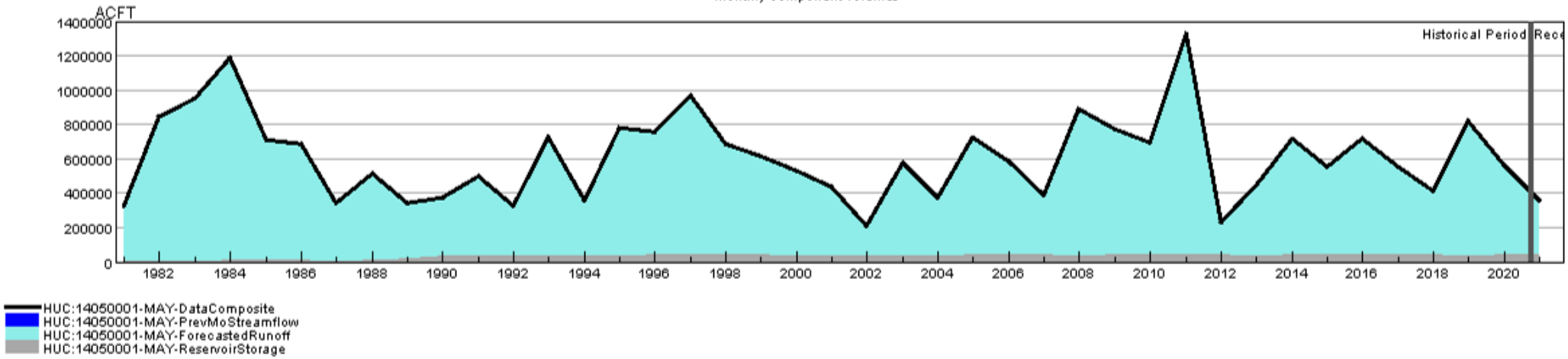
HUC 14030003 (San Miguel) SWSI Values - MAY

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



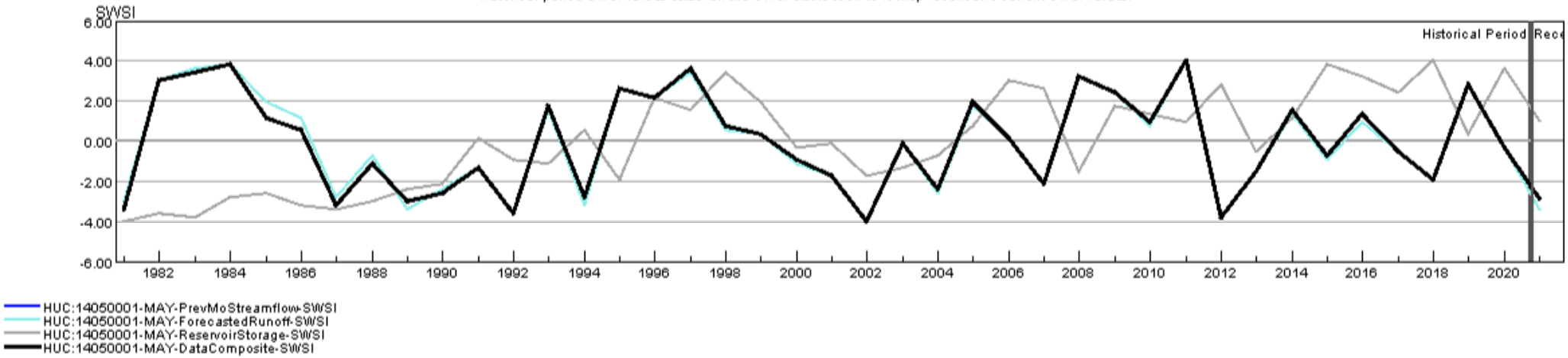
HUC 14050001 (Upper Yampa) Surface Water Supply - MAY

Monthly component volumes



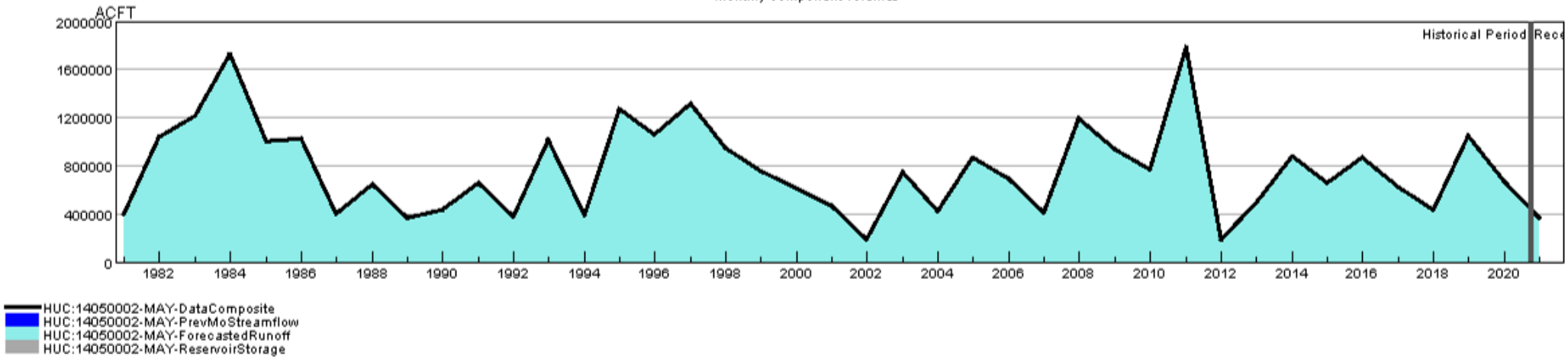
HUC 14050001 (Upper Yampa) SWSI Values - MAY

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



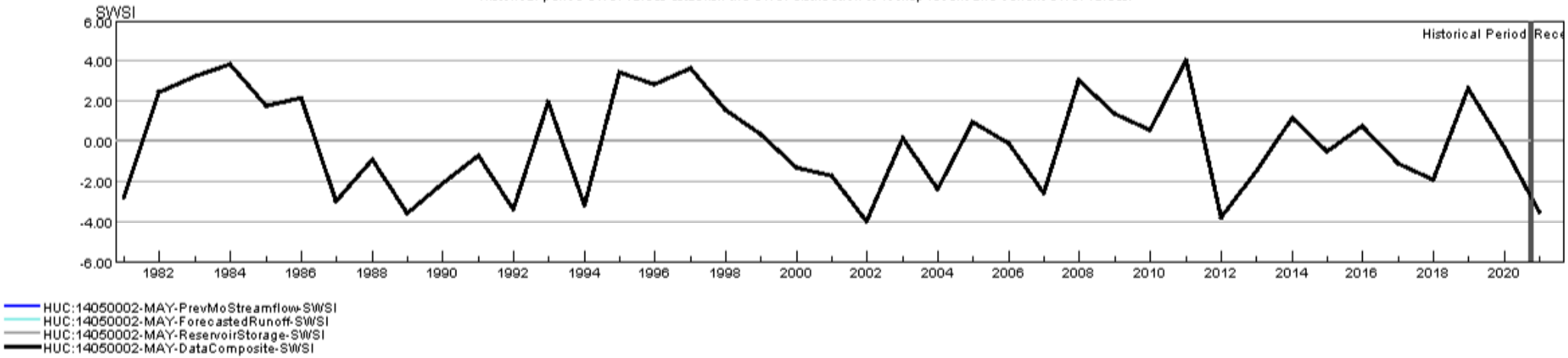
HUC 14050002 (Lower Yampa) Surface Water Supply - MAY

Monthly component volumes



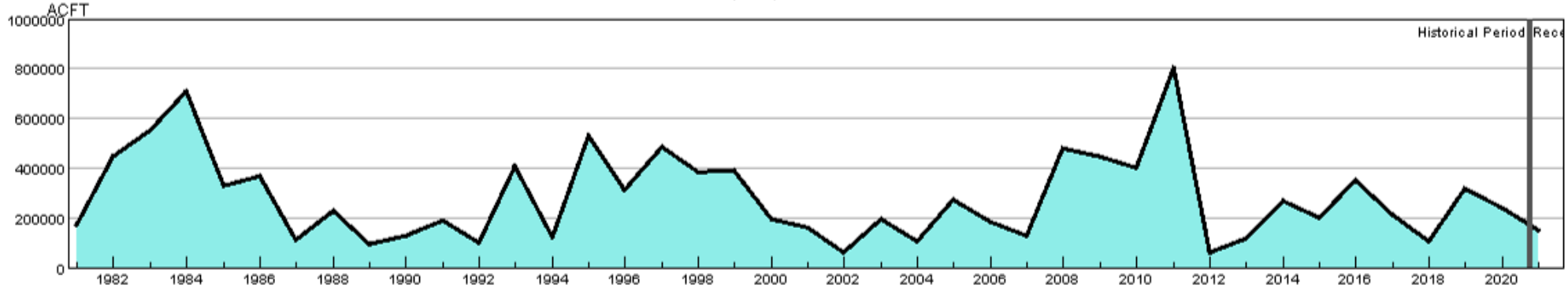
HUC 14050002 (Lower Yampa) SWSI Values - MAY

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



HUC 14050003 (Little Snake) Surface Water Supply - MAY

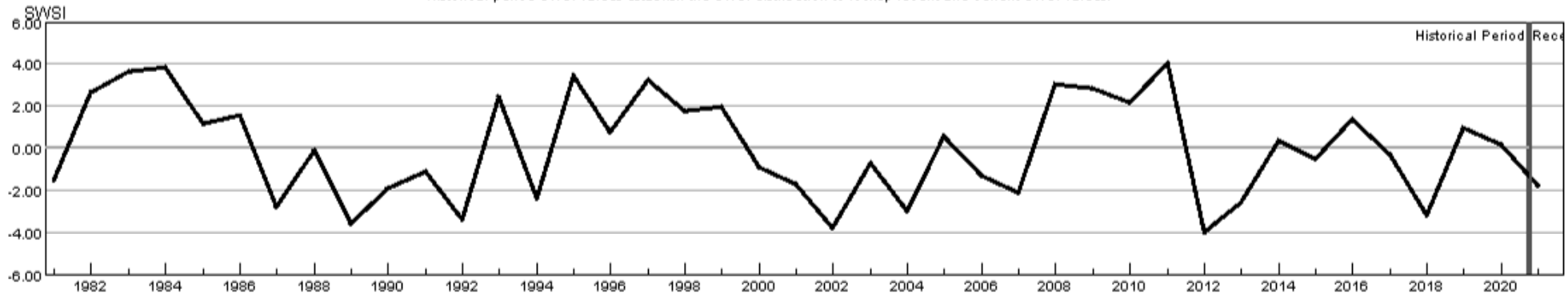
Monthly component volumes



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

HUC 14050003 (Little Snake) SWSI Values - MAY

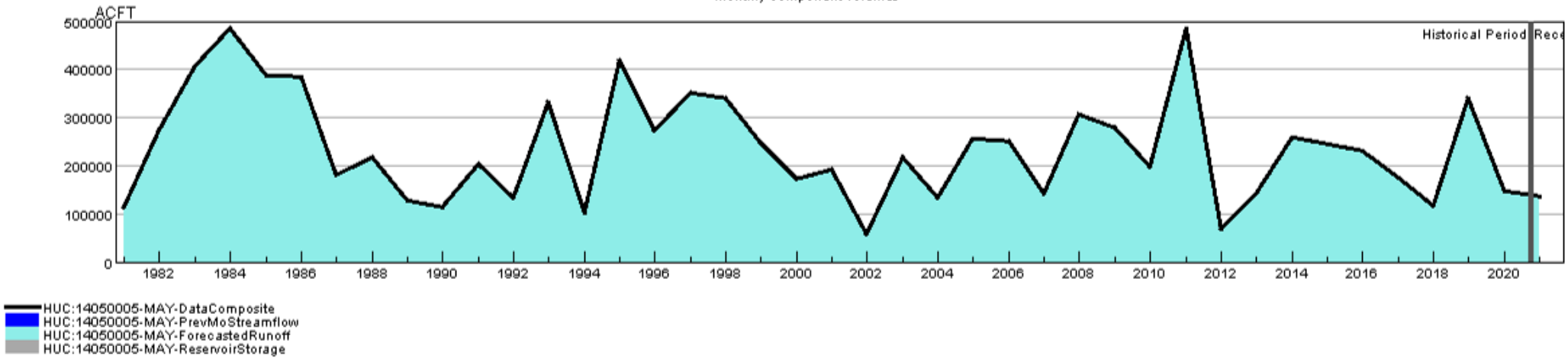
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

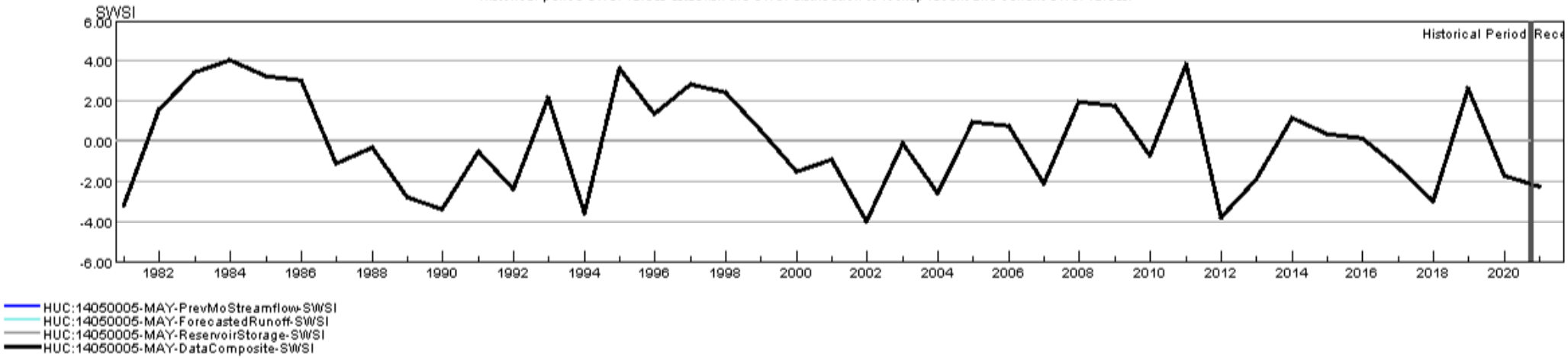
HUC 14050005 (Upper White) Surface Water Supply - MAY

Monthly component volumes



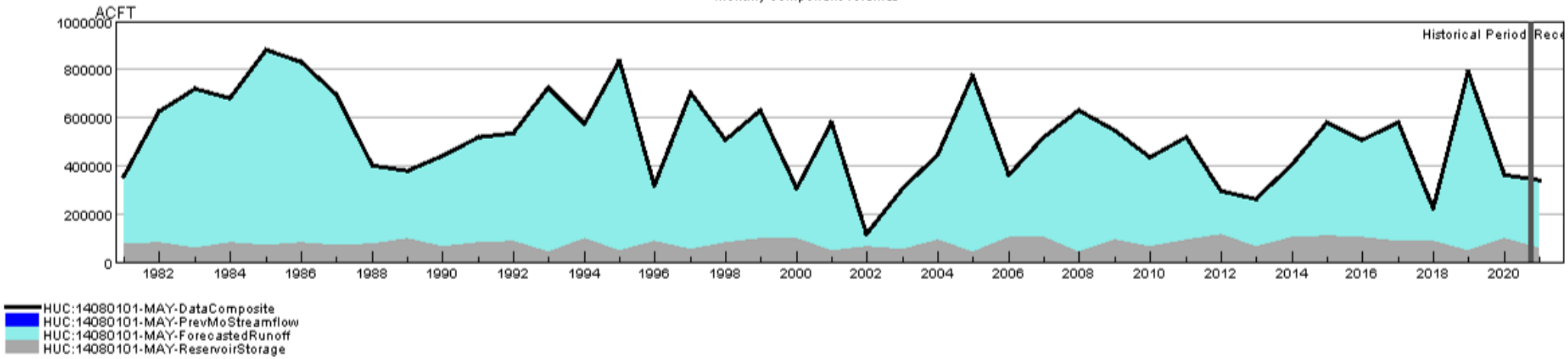
HUC 14050005 (Upper White) SWSI Values - MAY

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



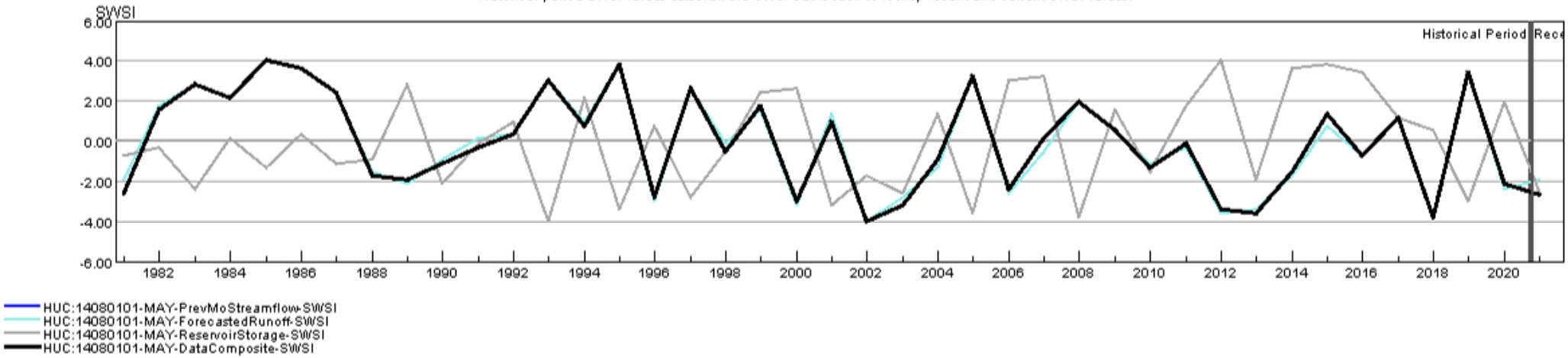
HUC 14080101 (Upper San Juan) Surface Water Supply - MAY

Monthly component volumes



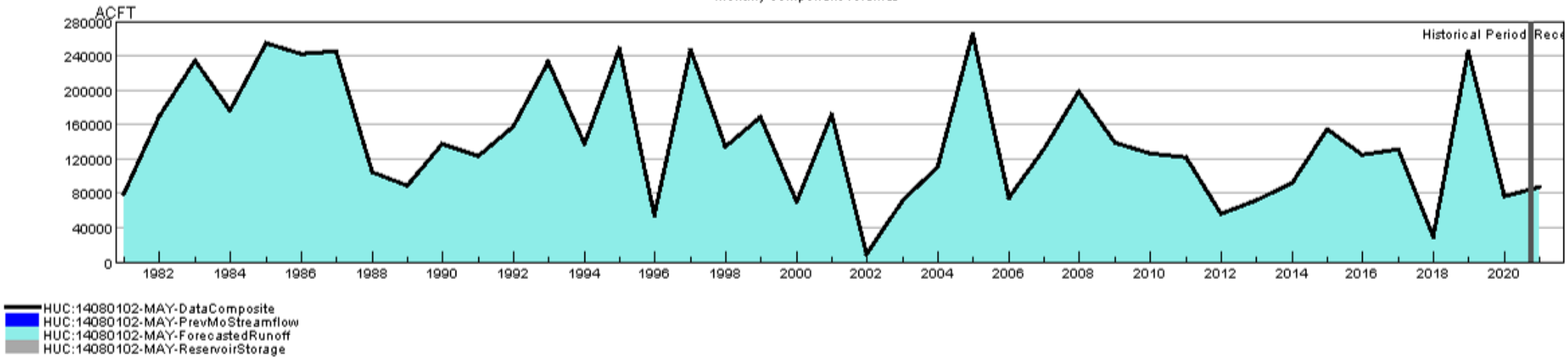
HUC 14080101 (Upper San Juan) SWSI Values - MAY

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



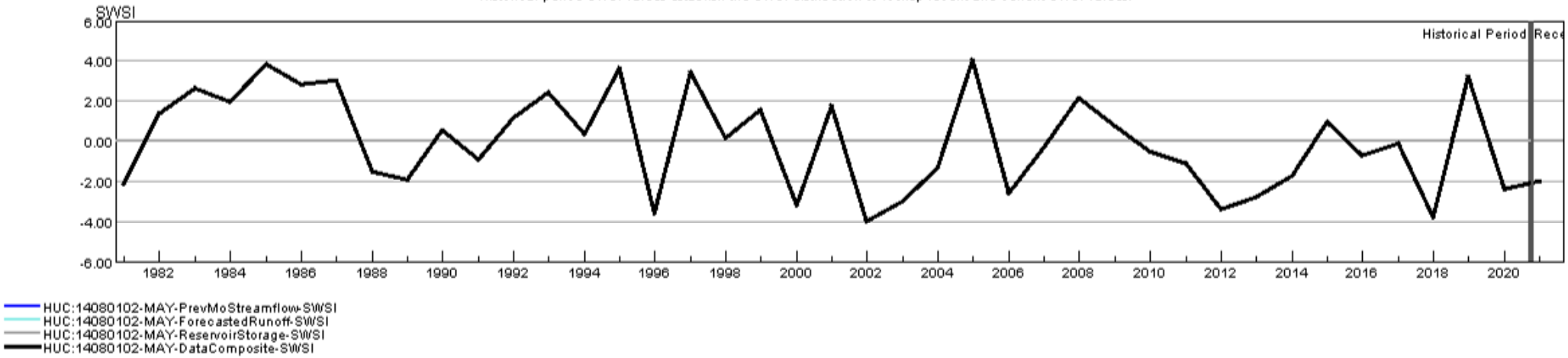
HUC 14080102 (Piedra) Surface Water Supply - MAY

Monthly component volumes



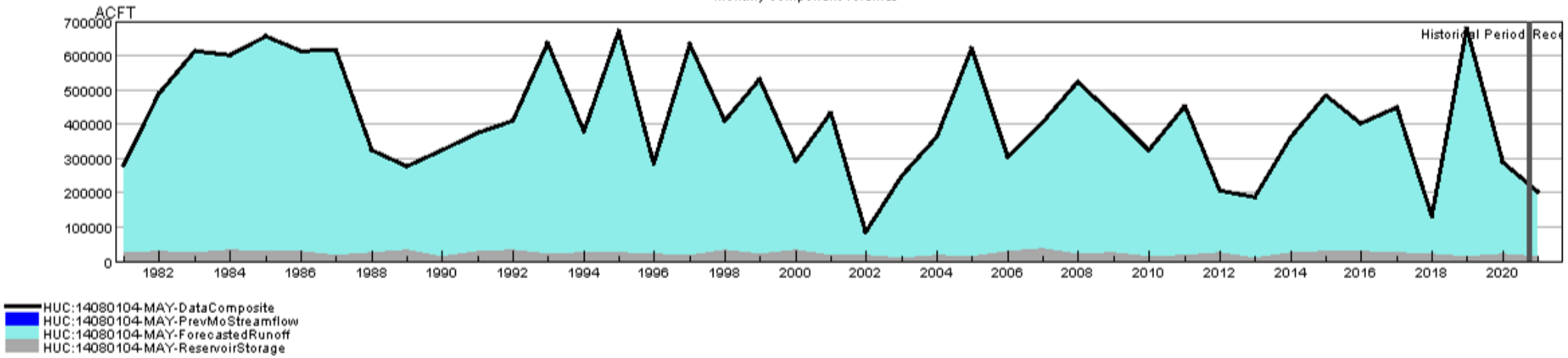
HUC 14080102 (Piedra) SWSI Values - MAY

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



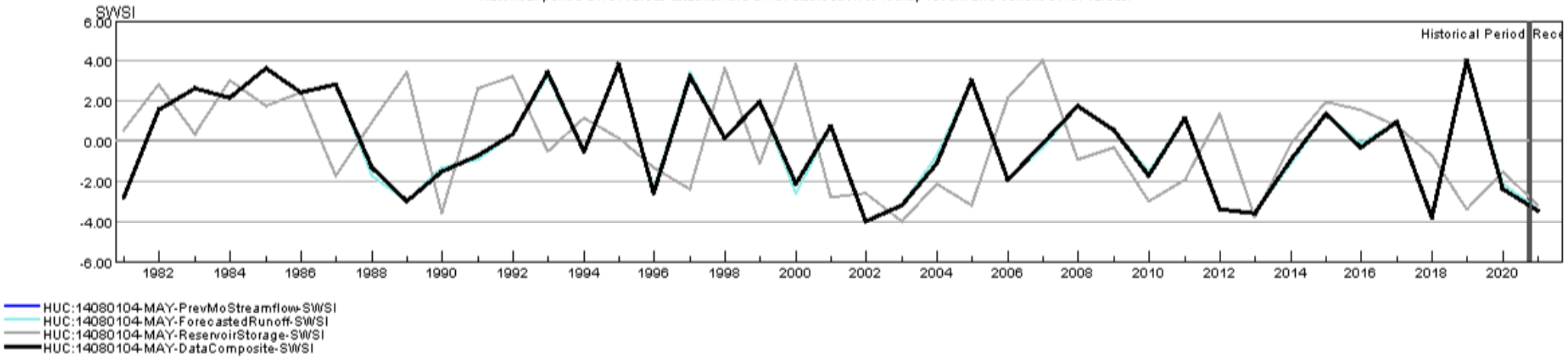
HUC 14080104 (Animas) Surface Water Supply - MAY

Monthly component volumes



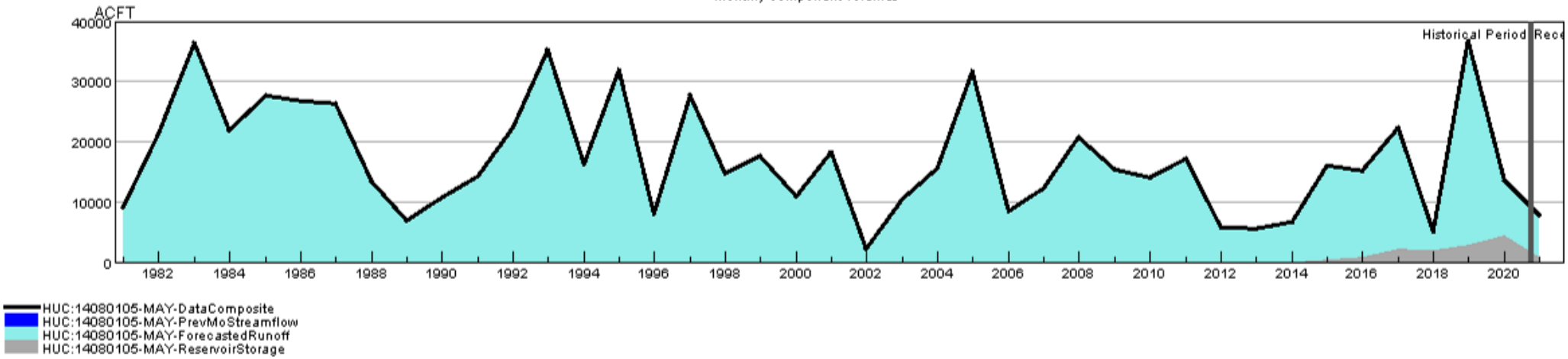
HUC 14080104 (Animas) SWSI Values - MAY

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



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

Monthly component volumes



HUC 14080105 (Middle San Juan) SWSI Values - MAY

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