
COLORADO

WATER SUPPLY CONDITIONS UPDATE

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

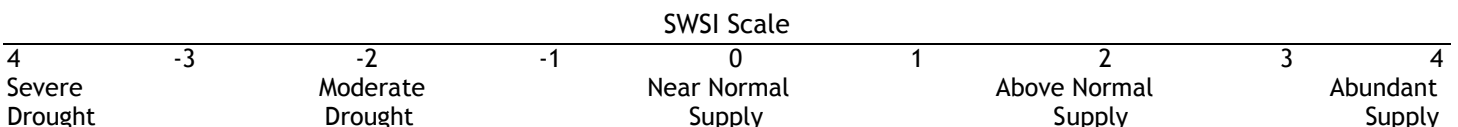
The Surface Water Supply Index (SWSI) is used as an indicator of mountain-based water supply conditions in the seven major river basins of the state and in each of the 8-digit HUC basins. Colorado's original SWSI has been published beginning in the 1980s. The Colorado Water Conservation Board (CWCB)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

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

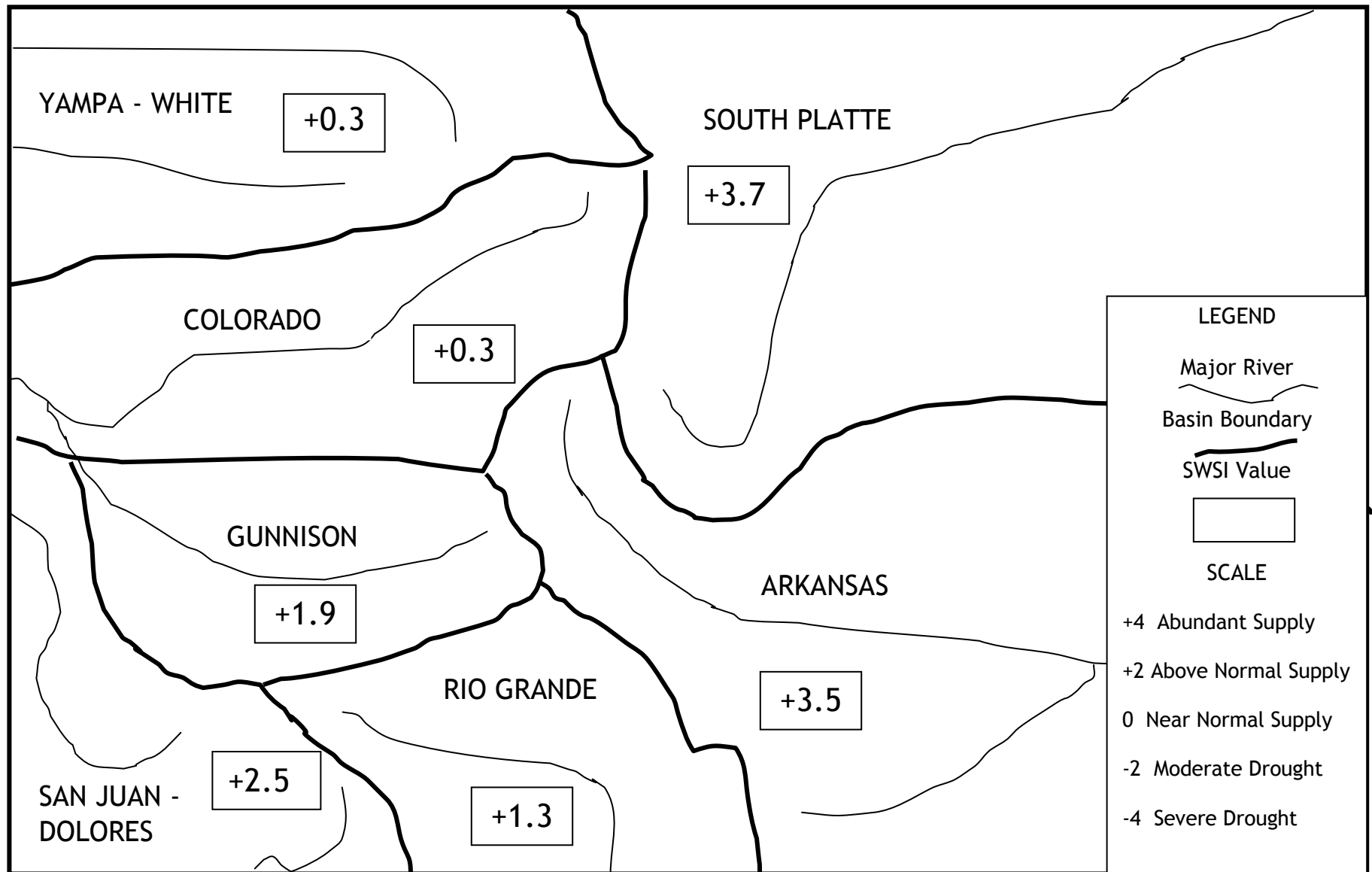
Recently, CWCB and the Division of Water Resources (DWR) (both Divisions of the Colorado Department of Natural Resources) completed a software project to implement a revised version of the new SWSI and to document the underlying hydrologic data. The new DNR SWSI was developed with assistance from the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

The statewide SWSI values for July (August 1) range from a high value of +3.7 in the South Platte River Basin to a low of +0.3 in the Yampa/White basin. All of the major river basins have near normal to above normal water supply conditions. With the exception of the Colorado River Basin, there was minimal change in SWSI values compared to conditions on July 1. In most locations, the SWSI is either similar to or very improved compared to August 1, 2014. The following SWSI values were computed for each of the seven major basins for August 1, 2015.

Basin	August 1 SWSI	Change from Previous Month	Change from Previous Year
Arkansas	3.5	-0.3	3.4
Colorado	0.3	-1.8	-0.3
Gunnison	1.9	-0.6	2.5
Rio Grande	1.3	-0.3	1.7
San Juan-Dolores	2.5	0.0	4.1
South Platte	3.7	-0.3	0.0
Yampa-White	0.3	0.9	-0.2

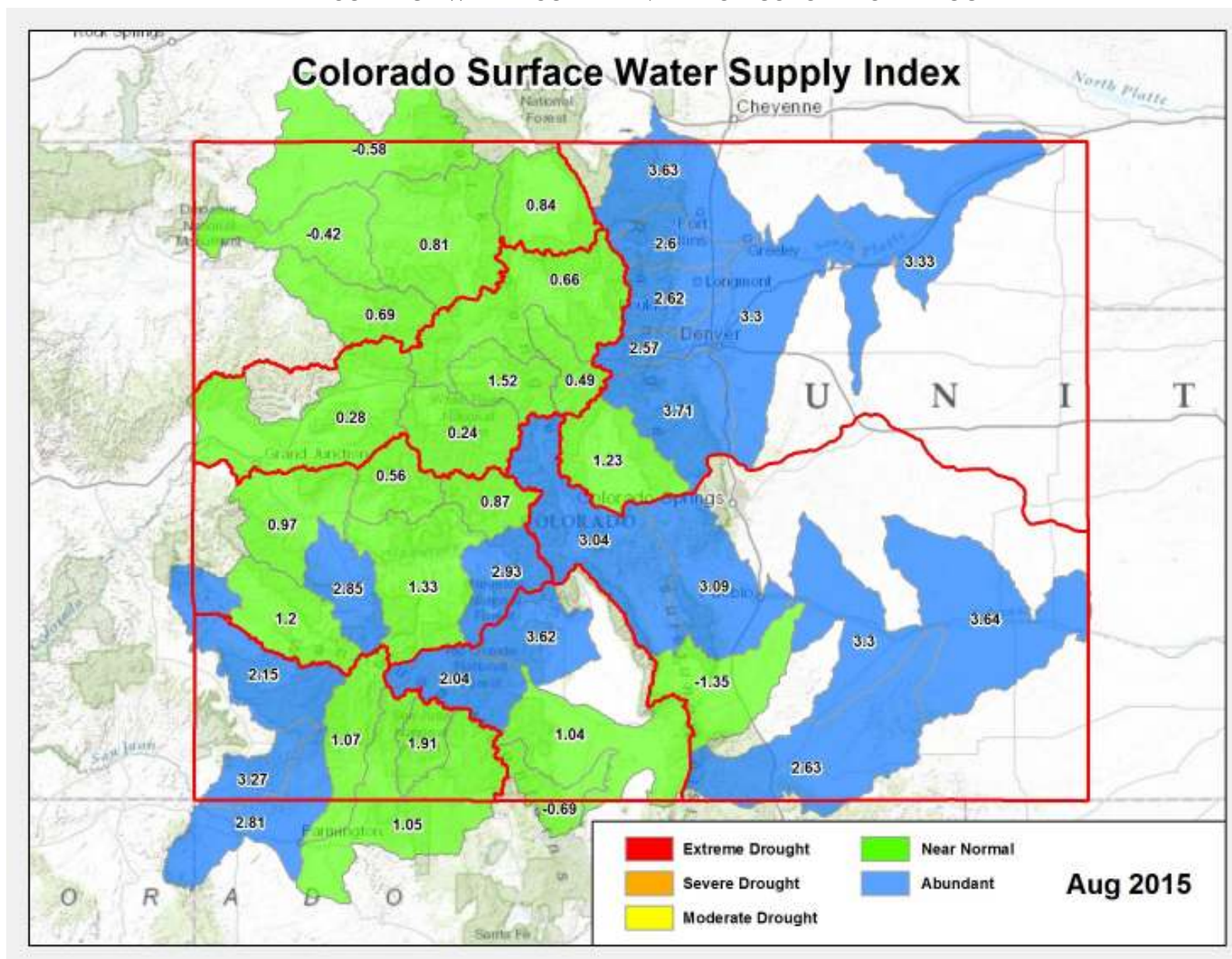


SURFACE WATER SUPPLY INDEX FOR COLORADO BY MAJOR RIVER BASIN



August 1, 2015

SURFACE WATER SUPPLY INDEX FOR COLORADO BY HUC



August 1, 2015

August 1, 2015 SWSI Values by HUC and Component Non Exceedance Percentages (NEP)

	HUC ID	HUC Name	SWSI	Res Storage NEP	Prev Month's Stream Flow NEP	Total Vol (AF)
Arkansas	11020001	Arkansas Headwaters	3.0	73	80	330,206
	11020002	Upper Arkansas	3.1	82	83	378,127
	11020005	Upper Arkansas-Lake Meredith	3.3	99	83	190,800
	11020006	Huerfano	-1.3	11*	58	4,573
	11020009	Upper Arkansas-John Martin Reservoir	3.6	91	83	512,869
	11020010	Purgatoire	2.6	77	84	44,269
Colorado	14010001	Colorado Headwaters	0.7	72	56	413,734
	14010002	Blue	0.5	69	56	212,706
	14010003	Eagle	1.5	None	68	72,187
	14010004	Roaring Fork	0.2	61	53	243,630
	14010005	Colorado Headwaters-Plateau	0.3	58	54	456,993
Gunnison	14020001	East-Taylor	0.9	60	59	148,625
	14020002	Upper Gunnison	1.3	78	60	1,046,385
	14020003	Tomichi	2.9	98	84	19,783
	14020004	North Fork Gunnison	0.6	55	57	37,022
	14020005	Lower Gunnison	1.0	None	62	219,819
	14020006	Uncompahgre	2.9	81	61	106,339
	14030003	San Miguel	1.2	None	64	30,897
Rio Grande	13010001	Rio Grande Headwaters	2.0	80	70	119,359
	13010002	Alamosa-Trinchera	1.0	53	68	27,197
	13010004	Saguache	3.6	None	93	9,060
	13010005	Conejos	-0.7	43	62	45,236
San Juan-Dolores	14030002	Upper Dolores	2.1	62	66	373,590
	14080101	Upper San Juan	1.0	88	61	187,140
	14080102	Piedra	1.9	None	73	25,311
	14080104	Animas	1.1	83	62	122,703
	14080105	Middle San Juan	2.8	50**	78	3,400
	14080107	Mancos	3.3	88	87	13,650
South Platte	10190001	South Platte Headwaters	1.2	41	93	176,761
	10190002	Upper South Platte	3.7	81	96	429,525
	10190003	Middle South Platte-Cherry Creek	3.3	92	88	373,033
	10190004	Clear	2.6	None	81	37,494
	10190005	St. Vrain	2.6	94	72	134,914
	10190006	Big Thompson	2.6	80	74	651,100
	10190007	Cache La Poudre	3.6	99	85	269,000
	10190012	Middle South Platte-Sterling	3.3	96	88	460,633
Yampa-White	10180001	North Platte Headwaters	0.8	None	60	43,222
	14050001	Upper Yampa	0.8	99	44	87,599
	14050002	Lower Yampa	-0.4	None	45	55,468
	14050003	Little Snake	-0.6	None	43	11,107
	14050005	Upper White	0.7	None	58	39,596

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

*Cucharas Reservoir is empty due to Division Engineer filling restriction

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

August 1, 2015 SWSI Component Information By HUC

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month	% of SWSI Vol
11020001	Arkansas Headwaters	ARKANSAS RIVER AT SALIDA	88,306	79	27%
		CLEAR CREEK RESERVOIR	9,000	63	3%
		TURQUOISE LAKE	120,300	57	36%
		TWIN LAKES RESERVOIR	70,100	66	21%
		HOMESTAKE RESERVOIR	42,500	78	13%
11020002	Upper Arkansas	PUEBLO RESERVOIR INFLOW	136,127	83	36%
		PUEBLO RESERVOIR	242,000	81	64%
11020005	Upper Arkansas-Lake Meredith	PUEBLO RESERVOIR INFLOW	136,127	83	71%
		HUERFANO RIVER NEAR REDWING	2,702	56	1%
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	1,871	62	1%
		MEREDITH RESERVOIR	40,800	96	21%
		LAKE HENRY	9,300	98	5%
11020006	Huerfano	HUERFANO RIVER NEAR REDWING	2,702	56	59%
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	1,871	62	41%
		CUCHARAS RESERVOIR	0	22	0%
11020009	Upper Arkansas-John Martin Reservoir	PUEBLO RESERVOIR INFLOW	136,127	83	27%
		HUERFANO RIVER NEAR REDWING	2,702	56	1%
		CUCHARAS RIVER AT BOYD RANCH NR LA VETA	1,871	62	0%
		PURGATOIRE RIVER AT TRINIDAD	11,369	83	2%
		ADOBE CREEK RESERVOIR	70,900	98	14%
		JOHN MARTIN RESERVOIR	289,900	89	57%
11020010	Purgatoire	PURGATOIRE RIVER AT TRINIDAD	11,369	83	26%
		TRINIDAD LAKE	32,900	77	74%
14010001	Colorado Headwaters	COLORADO RIVER NEAR DOTSERO	265,834	55	64%
		WILLIAMS FORK RESERVOIR	96,100	83	23%
		WOLFORD MOUNTAIN RESERVOIR	51,800	69	13%
14010002	Blue	BLUE RIVER INFLOW TO GREEN MOUNTAIN RES	67,506	56	32%
		GREEN MOUNTAIN RESERVOIR	145,200	69	68%
14010003	Eagle	EAGLE RIVER BELOW GYPSUM	72,187	68	100%
14010004	Roaring Fork	ROARING FORK AT GLENWOOD SPRINGS	142,730	53	59%
		RUEDI RESERVOIR	100,900	61	41%
14010005	Colorado Headwaters-Plateau	COLORADO RIVER NEAR CAMEO	432,623	54	95%
		VEGA RESERVOIR	24,370	59	5%
14020001	East-Taylor	TAYLOR R INF TO TAYLOR PARK RESERVOIR	22,881	63	15%
		EAST RIVER AT ALMONT	29,744	53	20%
		TAYLOR PARK RESERVOIR	96,000	60	65%
14020002	Upper Gunnison	GUNNISON RIVER NEAR GUNNISON, CO	68,140	58	7%
		LAKE FORK AT GATEVIEW, CO	31,908	66	3%
		BLUE MESA RESERVOIR	805,300	75	77%
		MORROW POINT RESERVOIR	113,337	58	11%
		FRUITLAND RESERVOIR	4,800	68	0%
		CRAWFORD RESERVOIR	11,600	66	1%
		SILVER JACK RESERVOIR	11,300	70	1%
14020003	Tomichi	TOMICHI CREEK AT GUNNISON, CO	18,883	83	95%
		VOUGA RESERVOIR NEAR DOYLEVILLE	900	97	5%
14020004	North Fork Gunnison	NORTH FORK GUNNISON R NR SOMERSET	22,120	56	60%
		PAONIA RESERVOIR	14,902	55	40%
14020005	Lower Gunnison	GUNNISON RIVER NR GRAND JUNCTION	219,819	61	100%
14020006	Uncompahgre	UNCOMPAHGRE RIVER AT COLONA	27,839	61	26%
		RIDGEWAY RESERVOIR	78,500	80	74%
14030003	San Miguel	SAN MIGUEL RIVER NEAR PLACERVILLE	30,897	64	100%

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month	% of SWSI Vol
13010001	Rio Grande Headwaters	RIO GRANDE NEAR DEL NORTE	75,459	69	63%
		RIO GRANDE RESERVOIR	24,200	85	20%
		SANTA MARIA RESERVOIR	19,700	86	17%
		CONTINENTAL RESERVOIR	0	10	0%
13010002	Alamosa-Trinchera	ALAMOSA CREEK ABOVE TERRACE RESERVOIR	5,944	50	22%
		TRINCHERA CK	1,360	45	5%
		SANGRE DE CRISTO	892	54	3%
		UTE CREEK	1,721	54	6%
		CULEBRA CREEK AT SAN LUIS	6,041	89	22%
		TERRACE RESERVOIR	5,700	51	21%
		MOUNTAIN HOME	5,539	55	20%
13010004	Saguache	SAGUACHE CREEK NEAR SAGUACHE, CO	9,060	93	100%
13010005	Conejos	CONEJOS RIVER NEAR MOGOTE	21,236	62	47%
		PLATORO RESERVOIR	24,000	44	53%
14030002	Upper Dolores	DOLORES RIVER BELOW MCPHEE RESERVOIR	26,507	65	7%
		GROUNDHOG RESERVOIR	22,800	96	6%
		MCPHEE RESERVOIR	324,283	61	87%
14080101	Upper San Juan	SAN JUAN RIVER NEAR CARRACAS	35,064	58	19%
		LOS PINOS RIVER NEAR BAYFIELD	35,076	66	19%
		VALLECITO RESERVOIR	117,000	87	63%
14080102	Piedra	PIEDRA RIVER NEAR ARBOLES	25,311	72	100%
14080104	Animas	ANIMAS RIVER AT DURANGO	79,989	61	65%
		FLORIDA RIVER INFLOW TO LEMON RESERVOIR	7,513	68	6%
		LEMON RESERVOIR	35,200	82	29%
14080105	Middle San Juan	LA PLATA RIVER AT HESPERUS	3,017	78	89%
		LONG HOLLOW RESERVOIR	383	98	11%
14080107	Mancos	MANCOS RIVER NEAR MANCOS	4,250	86	31%
		JACKSON GULCH RESERVOIR	9,400	87	69%
10190001	South Platte Headwaters	ELEVENMILE CANYON RESV INFLOW	28,961	92	16%
		ANTERO RESERVOIR	1,500	8	1%
		ELEVENMILE CANYON RESERVOIR	99,600	38	56%
		SPINNEY MOUNTAIN RESERVOIR	46,700	72	26%
10190002	Upper South Platte	SOUTH PLATTE RIVER AT SOUTH PLATTE	85,517	95	20%
		BEAR CREEK ABV EVERGREEN	8,408	96	2%
		CHEESMAN LAKE	79,200	66	18%
		DILLON RESERVOIR	256,400	69	60%
10190003	Middle South Platte-Cherry Creek	SOUTH PLATTE RIVER AT SOUTH PLATTE	85,517	95	23%
		BEAR CREEK ABV EVERGREEN	8,408	96	2%
		CLEAR CREEK AT GOLDEN	37,494	80	10%
		SAINT VRAIN CREEK AT LYONS	31,000	86	8%
		BOULDER CREEK NEAR ORODELL	12,000	49	3%
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	7,514	64	2%
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	32,000	74	9%
		CACHE LA POUDE R AT CANYON MOUTH	62,000	84	17%
		BARR LAKE	28,900	90	8%
		MILTON RESERVOIR	14,400	76	4%
		STANDLEY RESERVOIR	41,200	57	11%
		HORSECREEK RESERVOIR	12,600	92	3%
10190004	Clear	CLEAR CREEK AT GOLDEN	37,494	80	100%
10190005	St. Vrain	SAINT VRAIN CREEK AT LYONS	31,000	86	23%
		BOULDER CREEK NEAR ORODELL	12,000	49	9%

HUC ID	HUC Name	Component Name	Component Volume (AF)	Component NEP for Month	% of SWSI Vol
10190005	St. Vrain	SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	7,514	64	6%
		GROSS RESERVOIR	40,800	76	30%
		MARSHALL RESERVOIR	8,700	87	6%
		BUTTONROCK (RALPH PRICE) RESERVOIR	16,200	98	12%
		TERRY RESERVOIR	6,600	71	5%
		UNION RESERVOIR	12,100	55	9%
10190006	Big Thompson	BIG THOMPSON R AT MOUTH, NR DRAKE, CO	32,000	74	5%
		BOYD LAKE	35,000	43	5%
		CARTER LAKE	99,100	91	15%
		LAKE LOVELAND RESERVOIR	8,900	63	1%
		LONE TREE RESERVOIR	5,500	55	1%
		MARIANO RESERVOIR	4,000	86	1%
		LAKE GRANBY	458,800	76	70%
		WILLOW CREEK RESERVOIR	7,800	51	1%
10190007	Cache La Poudre	CACHE LA POUDE R AT CANYON MOUTH	62,000	84	23%
		BLACK HOLLOW RESERVOIR	4,600	93	2%
		CACHE LA POUDE	10,800	98	4%
		CHAMBERS LAKE	7,000	64	3%
		COBB LAKE	20,900	92	8%
		FOSSIL CREEK RESERVOIR	8,600	74	3%
		HALLIGAN RESERVOIR	6,400	98	2%
		HORSETOOTH RESERVOIR	140,500	98	52%
		WINDSOR RESERVOIR	8,200	71	3%
10190012	Middle South Platte-Sterling	SOUTH PLATTE RIVER AT SOUTH PLATTE	85,517	95	19%
		BEAR CREEK ABV EVERGREEN	8,408	96	2%
		CLEAR CREEK AT GOLDEN	37,494	80	8%
		SAINT VRAIN CREEK AT LYONS	31,000	86	7%
		BOULDER CREEK NEAR ORODELL	12,000	49	3%
		SOUTH BOULDER CK NR ELDORADO SPRINGS, CO	7,514	64	2%
		BIG THOMPSON R AT MOUTH, NR DRAKE, CO	32,000	74	7%
		CACHE LA POUDE R AT CANYON MOUTH	62,000	84	13%
		EMPIRE RESERVOIR	33,500	97	7%
		JACKSON LAKE RESERVOIR	24,300	67	5%
		JULESBURG RESERVOIR	14,600	73	3%
		POINT OF ROCKS RESERVOIR	50,000	86	11%
		PREWITT RESERVOIR	22,700	88	5%
		RIVERSIDE RESERVOIR	39,600	90	9%
10180001	North Platte Headwaters	NORTH PLATTE R NR NORTHGATE	43,222	60	100%
14050001	Upper Yampa	YAMPA RIVER AT STEAMBOAT SPRINGS	16,549	50	19%
		ELK RIVER NEAR MILNER, CO	27,644	42	32%
		ELKHEAD CREEK ABOVE LONG GULCH	707	43	1%
		STAGECOACH RESERVOIR NR OAK CREEK	36,300	98	41%
		YAMCOLO RESERVOIR	6,400	80	7%
14050002	Lower Yampa	YAMPA RIVER NEAR MAYBELL	55,468	45	100%
14050003	Little Snake	LITTLE SNAKE RIVER NEAR LILY	11,107	43	100%
14050005	Upper White	WHITE RIVER NEAR MEEKER	39,596	58	100%

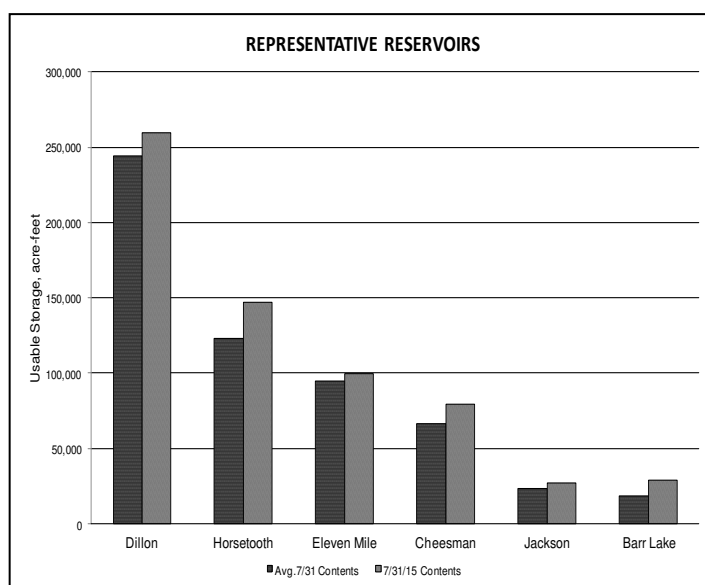
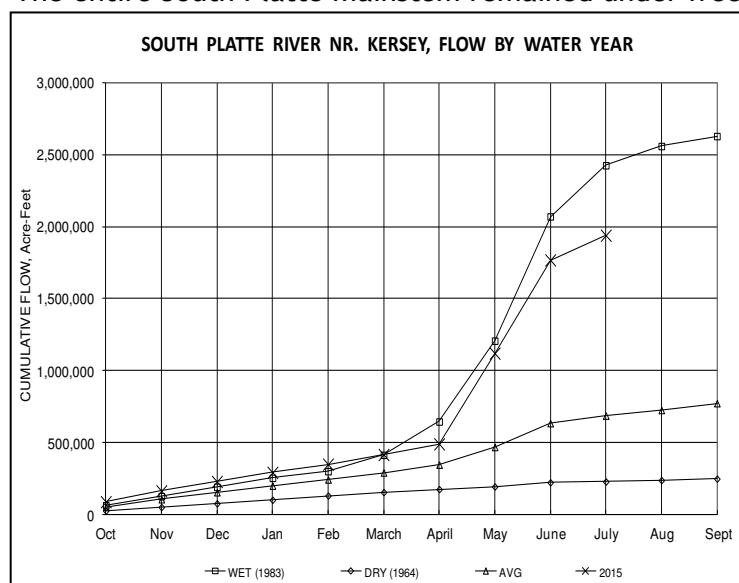
Basinwide Conditions Assessment

The SWSI value for the month was 3.7. During July 2015 conditions in the South Platte basin moved more toward normal than they have been in quite a while. Precipitation over most of the basin was near normal, though there were significant dryer than normal spots over most of Logan and Sedgwick Counties as well as southwestern Weld and southeastern Larimer Counties. Temperatures over the most of the basin were slightly cooler than normal, but there was a warmer than normal area over Morgan and far eastern Weld Counties.

Even with the near to below normal precipitation levels, overall flows at the Kersey and Julesburg gages remained well above average - probably due to both precipitation and the late drain out of the last of the good late snowpack. However, by the end of July the daily flow at the Kersey gage had dropped to almost exactly average. The overall July Kersey gage mean flow was 2,790 cfs or 413% of the long term July mean flow of 675 cfs. The July Julesburg mean gage flow was 2,480 cfs or 797% of the long term July mean flow of 311 cfs.

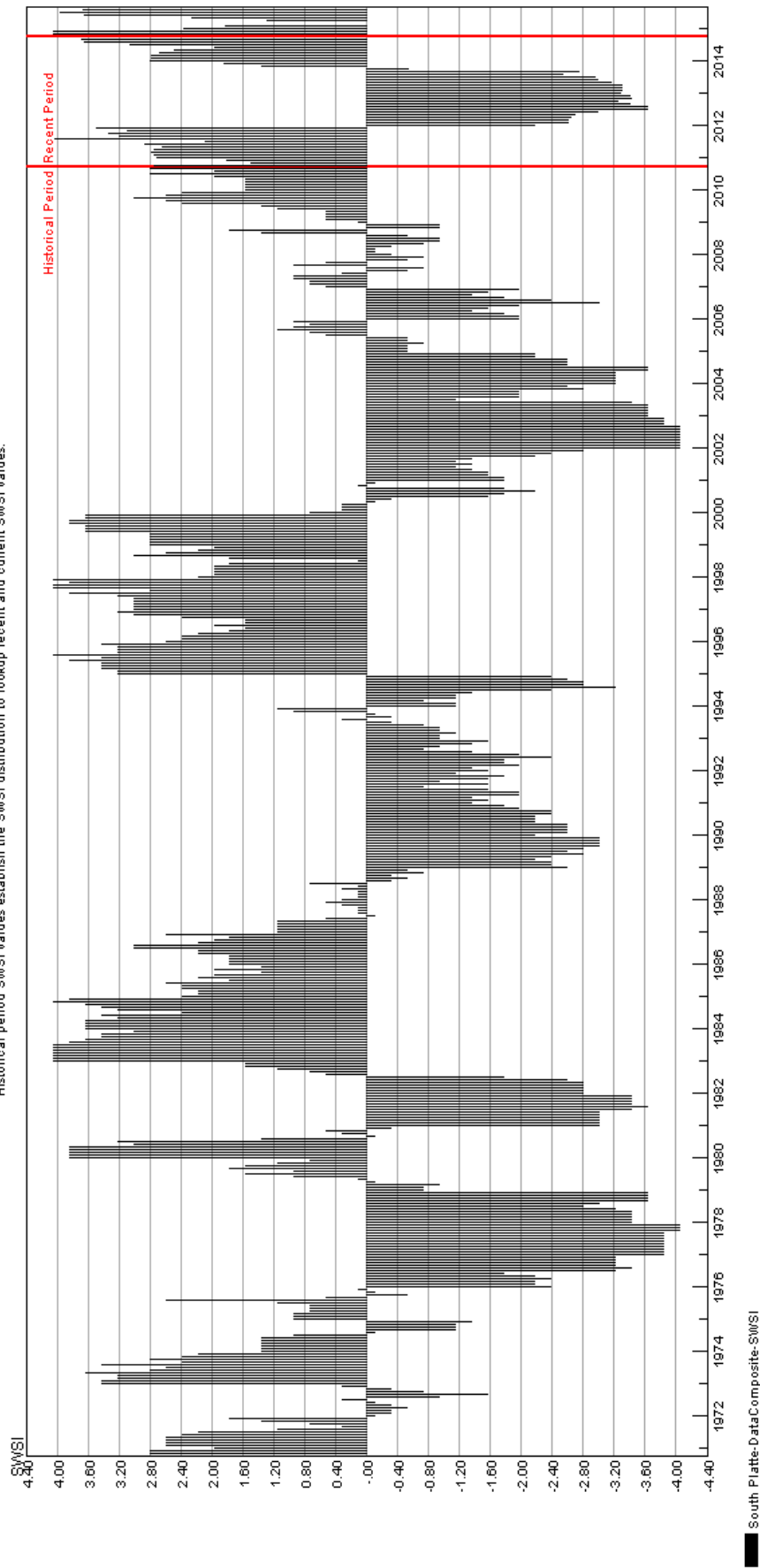
This is starting to feel like a broken record, but the above average stream flows again contributed to a very junior call scenario in July in the South Platte basin. The entire South Platte mainstem remained under free river until July 29 when the basin above metro Denver went under a fairly junior (for the end of July) call. Most of the major northern tributaries (Cache la Poudre and Big Thompson Rivers, St. Vrain and Boulder Creeks) were under, again for July, fairly junior calls for at least the last half of the month.

As could be expected, the more normal precipitation conditions led to an overall decrease in reservoir storage in the South Platte basin, but the end of July storage was still very good. Overall storage was at approximately 87% of capacity at the end of July. On average, overall storage is approximately 72% of capacity at the end of July.



South Platte Basin SWSI History

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



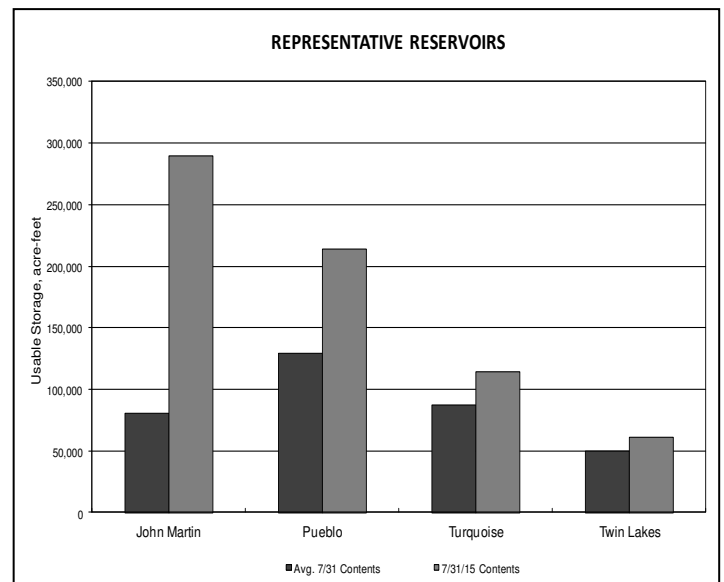
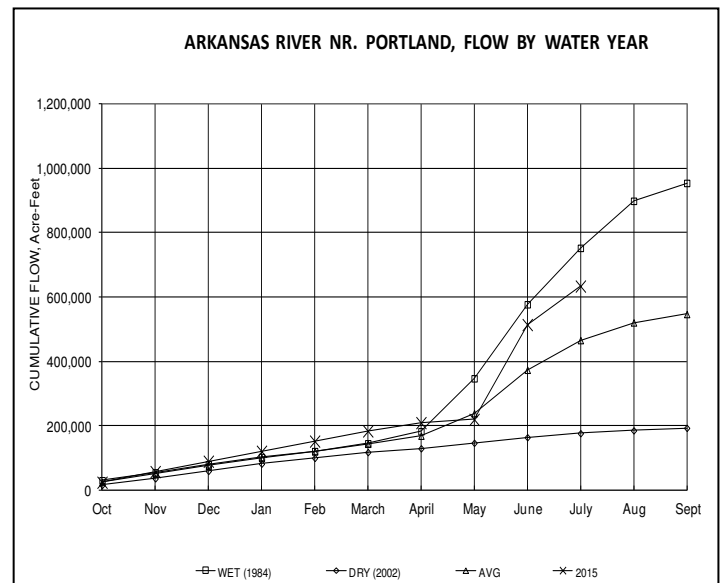
Basinwide Conditions Assessment

The SWSI value for the month was 3.5. Runoff began to subside in July and flood detention in Pueblo Reservoir was evacuated by July 9th. Flow conditions still remained strong. Spills were avoided at Pueblo Reservoir and John Martin Reservoir. Kansas began a significant release from John Martin Reservoir that continued through the month of July and the Colorado ditches below John Martin Reservoir also took delivery of a significant amount of irrigation supply. As a result, storage in John Martin Reservoir peaked at approximately 325,000 acre-feet on July 14th. This storage value was approximately 5,000 acre-feet below the top of the conservation pool.

The mainstem Arkansas River call remained on the John Martin Reservoir call of 5/31/1949 until July 20th when the call switched to the Fort Lyon Canal's junior water rights.

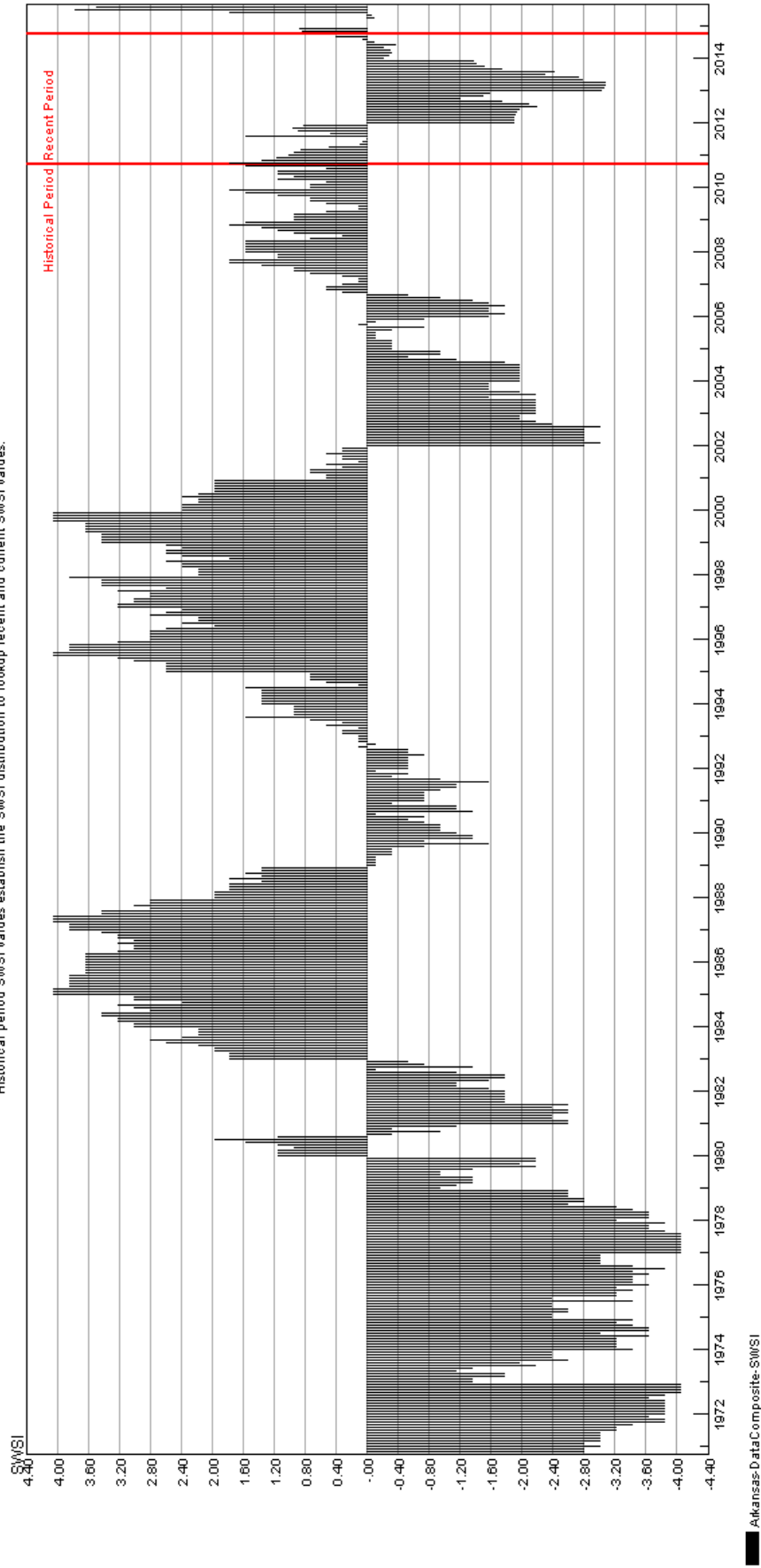
Administrative / Management Concerns

Flooding on Fountain Creek subsided marginally in July allowing some work to begin on reconstruction of damaged roads and structures.



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 1.3. Flow at the gaging station Rio Grande near Del Norte averaged 1550 cfs (120% of normal). The Conejos River near Mogote had a mean flow of 400 cfs (90% of normal). Streamflow in the upper Rio Grande basin was erratic during July. Some areas of the basin experienced above normal streamflow, such as the Rio Grande, Saguache Creek, Rito Alto Creek and most north end of the basin streams. Other areas produced below average flows such as the Alamosa River, the Conejos and its tributaries, and Ute Creek.

Precipitation during July was generally a little more than the long-term average in the San Luis Valley. Alamosa received 1.34 inches during the month, 0.37 inches above normal. The higher elevations had frequent small storms, creating short-term runoff increases or “spikes” in the hydrograph. The duration of these spikes were typically about 24 hours apiece.

Outlook

Recent NOAA weather forecasts for the next month and beyond call for wetter and cooler than normal conditions for the upper Rio Grande basin. NOAA is suggesting a similar pattern through April, 2016.

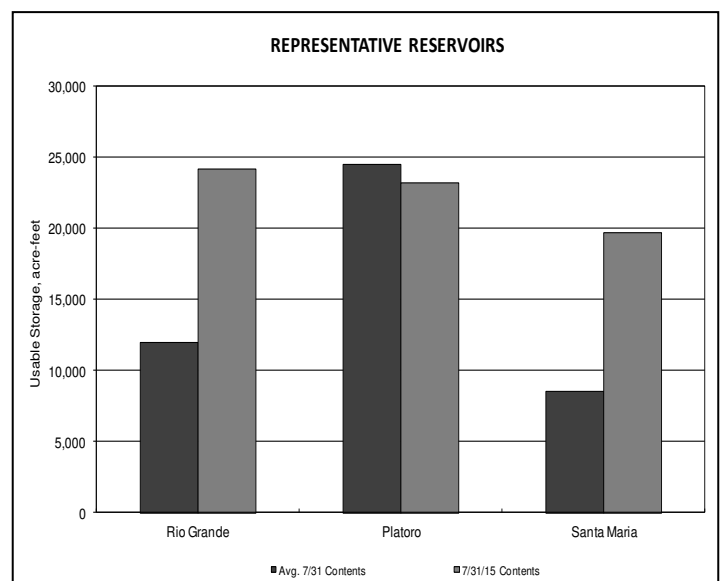
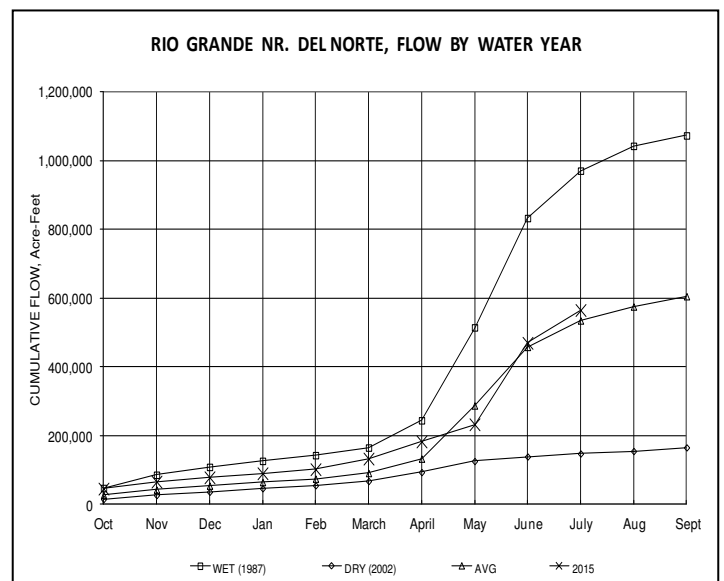
Administrative/Management Concerns

July had normal administrative duties with reservoir releases, streamflow measurement, headgate diversion record-keeping, and well measurement rule compliance checking. Water delivery to the State Line has been a bit above normal as the late runoff created unforeseen Compact delivery requirements.

Work is finishing up on the dams at Sanchez and Beaver Reservoirs. Sanchez has refilled nearly 15,000 acre-feet in the past two months. It holds about 100,000 acre-feet. Continental Reservoir is empty as repair work on that dam has begun.

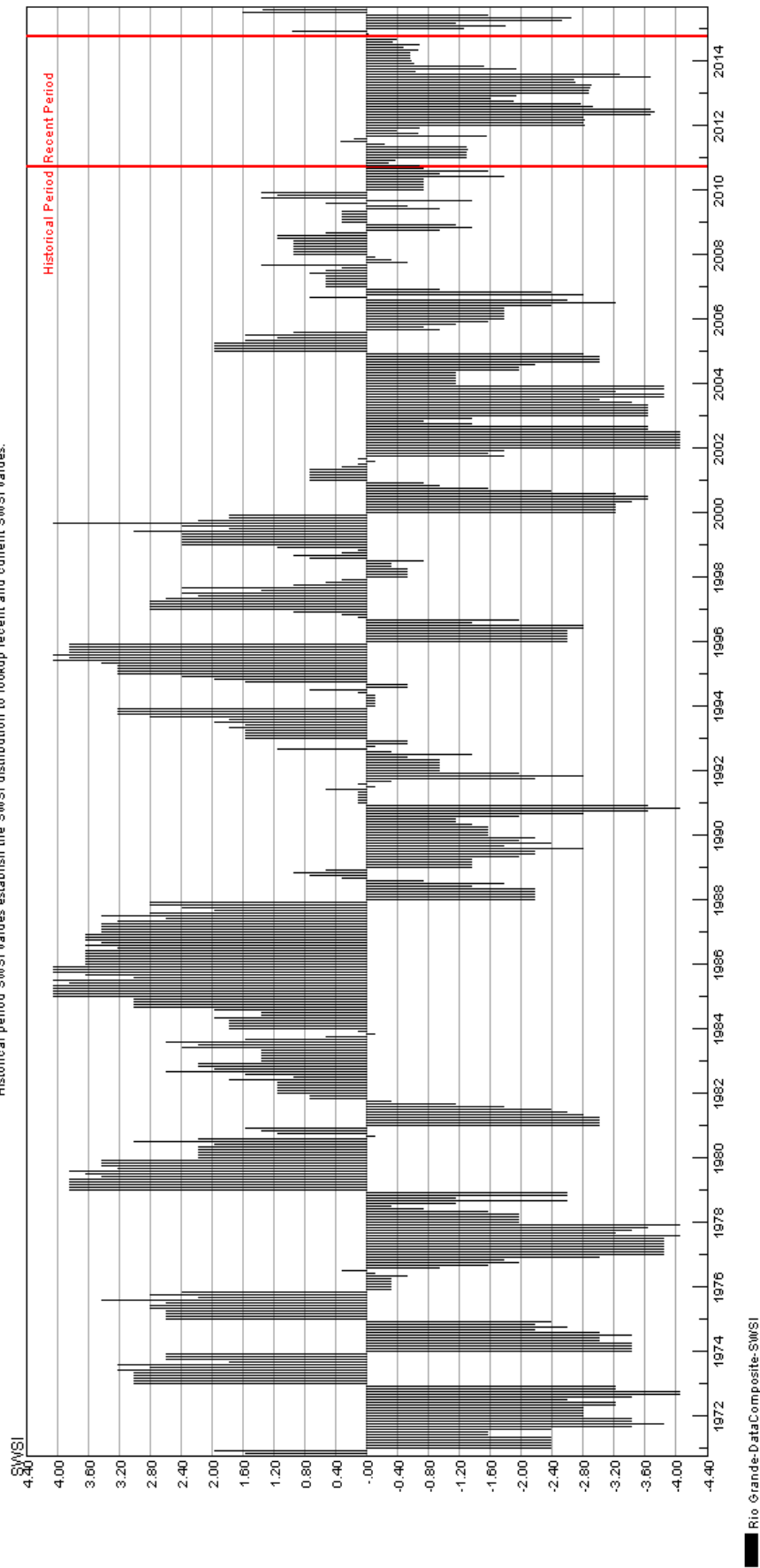
Public Use Impact

Although the runoff season arrived late and was better than normal in most parts of the San Luis Valley, many irrigators felt the pinch of recent dry conditions and ditches going out of priority. Well pumping increased as surface water supplies dwindled and temperatures rose.



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 1.9. July remained wetter than average for most of the Gunnison with the lower basin receiving over 150% of average and the upper basin between 100% and 129% of average precipitation. Temperatures were approximately 3-5 degrees below average during the month of July as well.

The continued rainfall kept streamflows up during much of the month, which in turn prevented the use of significant amounts of storage, leaving most reservoirs full at the end of the month!

Outlook

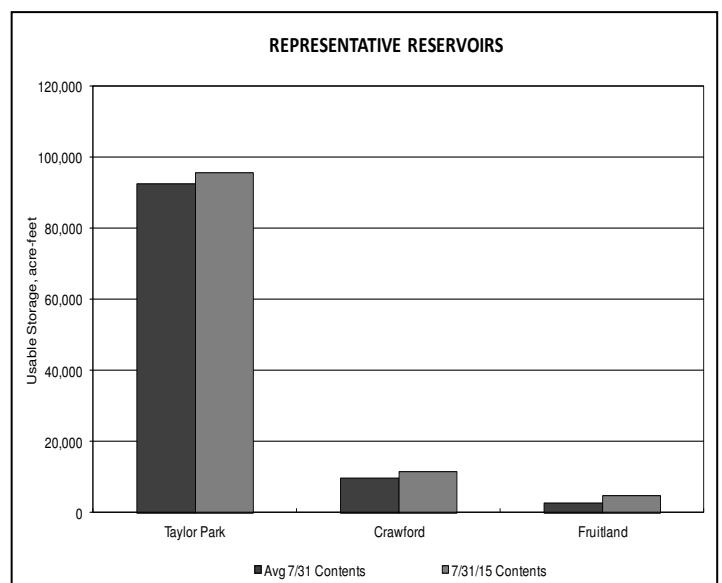
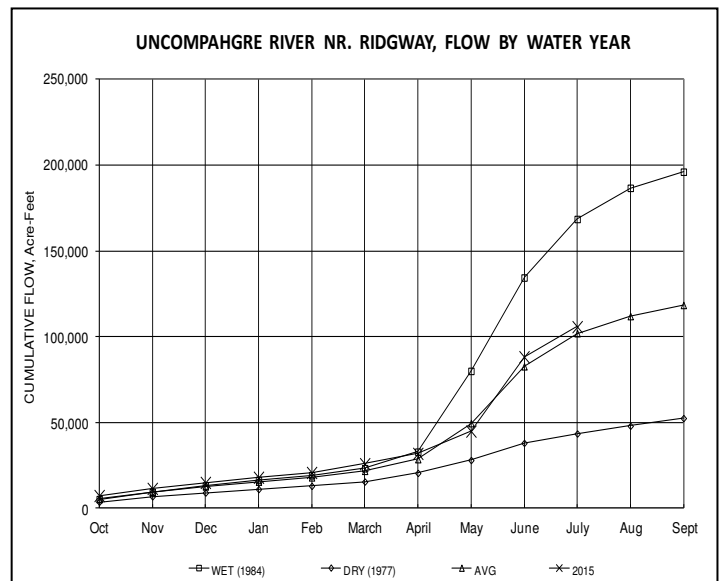
Climate Center forecasts show the Gunnison basin within an area expected to receive greater than average precipitation during the next three months. The current El Nino is expected to strengthen, which correlates with heavier than average monsoon precipitation in the fall for the Gunnison.

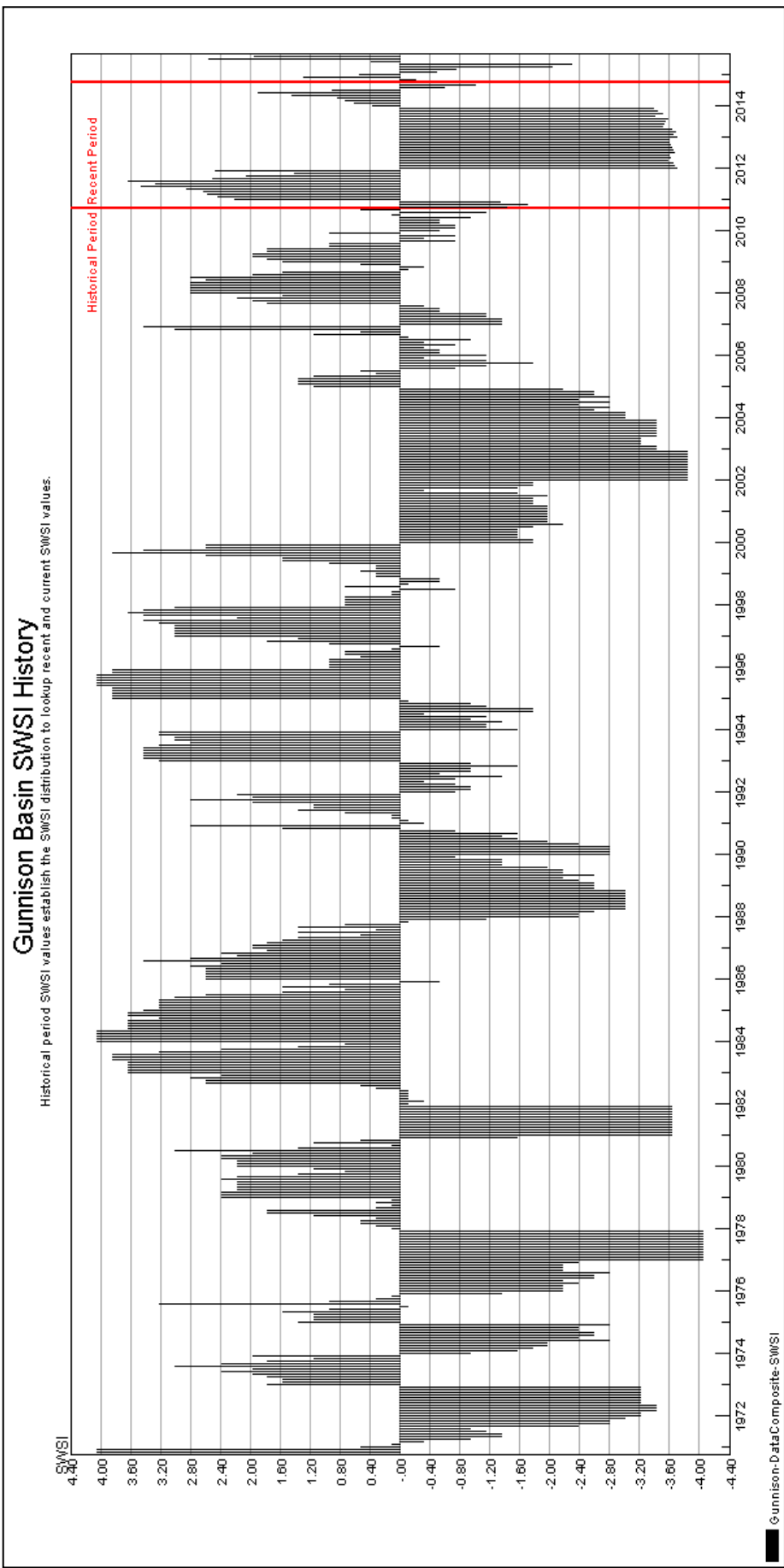
Administrative/Management Concerns

Currently there are few administrative concerns with most streamflows at or above average for this time of year. As of August 10th, reservoir accounting kept by the Division of Water Resources shows that inflows into the Aspinall Unit have exceeded demands by the Gunnison Tunnel every day of 2015, meaning that no storage water has been used to fill the over 1,000 cfs Gunnison Tunnel water right yet. In only three other years since 2002 did it go at least this long before any storage was used. Those years were 2006 where the first day of storage use was Sept. 3rd, 2011 (Aug. 17th), and 2014 (Aug 17th). Considering that 2006, 2011, and 2014 were all above average snowpack years above Blue Mesa, with 112%, 122%, and 116% of the median peak snow water equivalent (SWE) respectively, it is incredible that with only 76% of the peak SWE in 2015 we have gone until August 10th without using any storage. I believe that this demonstrates the huge impact of the cool and wet spring and early monsoon we had this year, proving that timing of the precipitation can be a very important factor that is sometimes overlooked.

Public Use Impacts

Streamflows that have held up longer than usual, certainly longer than anticipated given the snowpack in April, have provided boaters with great conditions for rafting, kayaking and fishing this summer. Hay growers have had some issues putting up their crop with the wet weather, but those that have missed the precipitation have commented that the yields this year are as good as they can remember.





Basinwide Conditions Assessment

The SWSI value for the month was 0.2.

Outlook

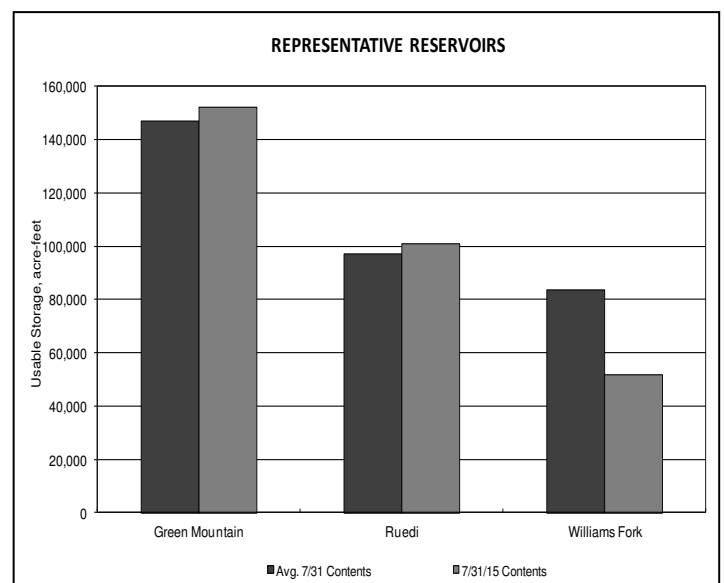
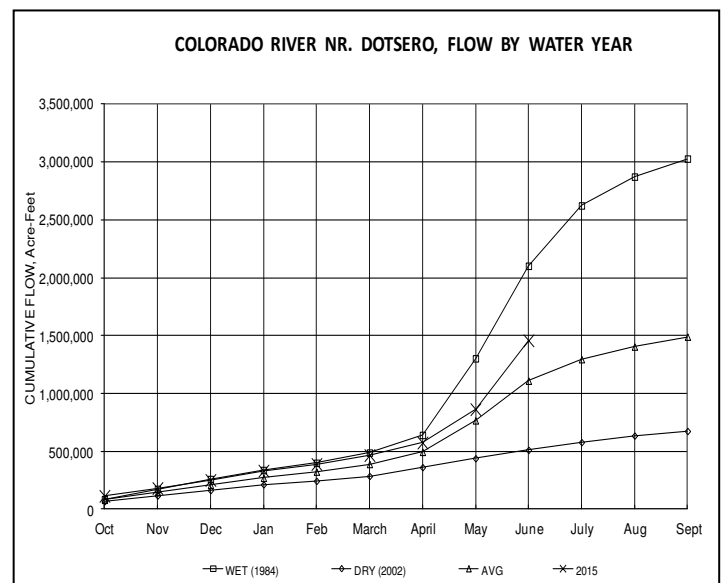
Colorado River flows are gradually falling, but continue slightly above average with most tributary flows running near or slightly above average throughout August. Average to above average precipitation with below average temperature is forecast for western Colorado through August. Reservoir releases in general, will gradually decrease throughout August as inflows fall.

Administrative/Management Concerns

As of August 7, a main stem Colorado River call is the junior Shoshone Hydro Plant right. Accordingly, Green Mountain Reservoir is releasing to meet contract and HUP obligations. Grand Valley Irrigation diversions (Government Highline/Orchard Mesa Irrigation, Grand Valley Irrigation canals) continue at or near full capacity. Ruedi Reservoir releases have increased to Support the fish recovery efforts in the 15 mile reach. Wolford Mountain releases have also increased to accommodate the Endangered Fish Recovery Program.

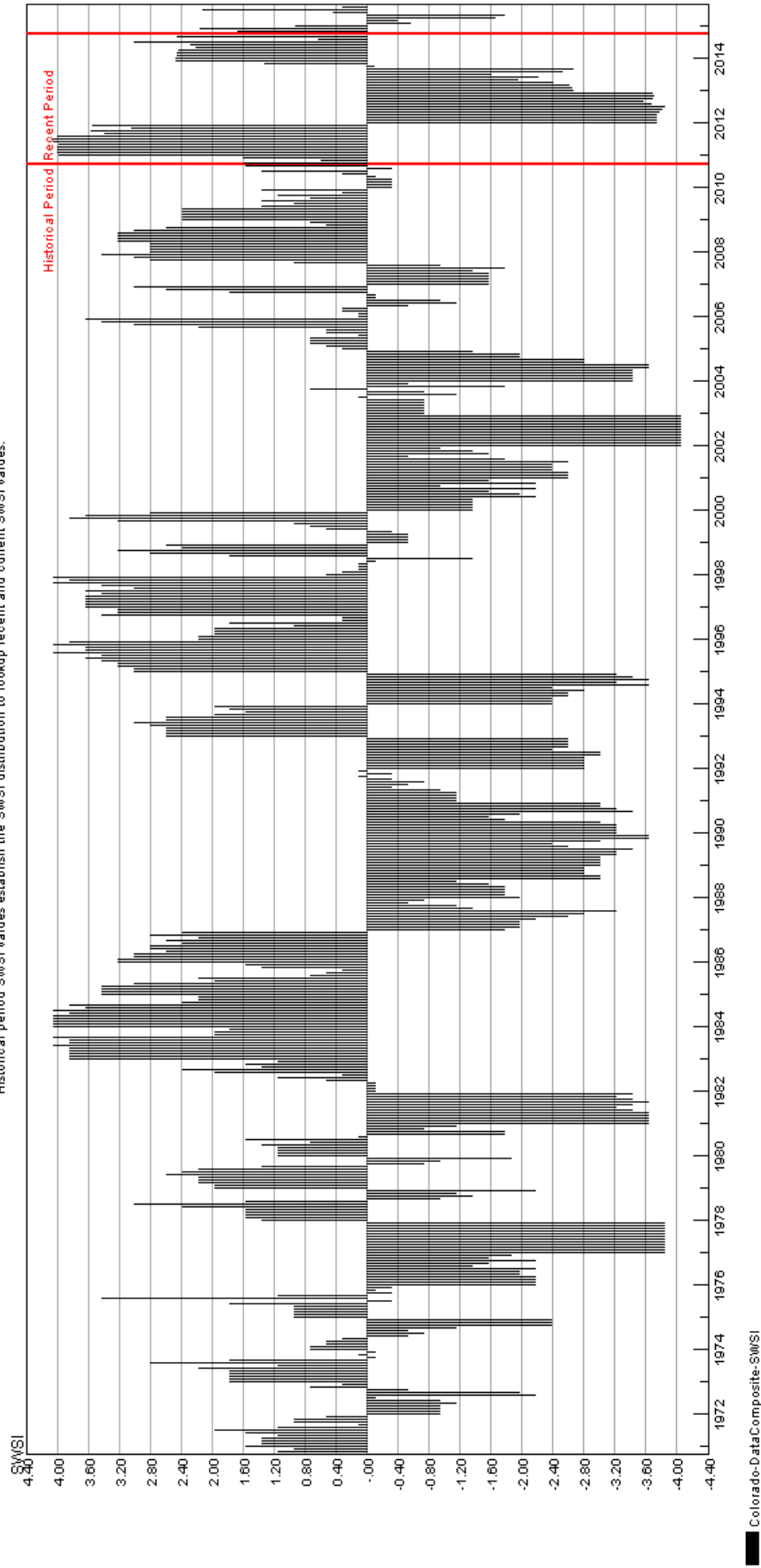
Public Use Impacts

A recent study commissioned by the nonprofit Roaring Fork Conservancy District teamed with Colorado State University claims that fishing on the lower Fryingpan River and Ruedi Reservoir pumps \$4 million annually into the Roaring Fork Valley economy. The study also showed that managing the water level so it stays above 40 cfs in the winter and roughly below 250 cfs in the late summer is critical to the economy.



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 0.3. July precipitation was above 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 135% of average for the combined Yampa, White, and North Platte River basins. Total precipitation for the water year as a percent of average to date in the combined basins at the end of July increased to 90%.

Outlook

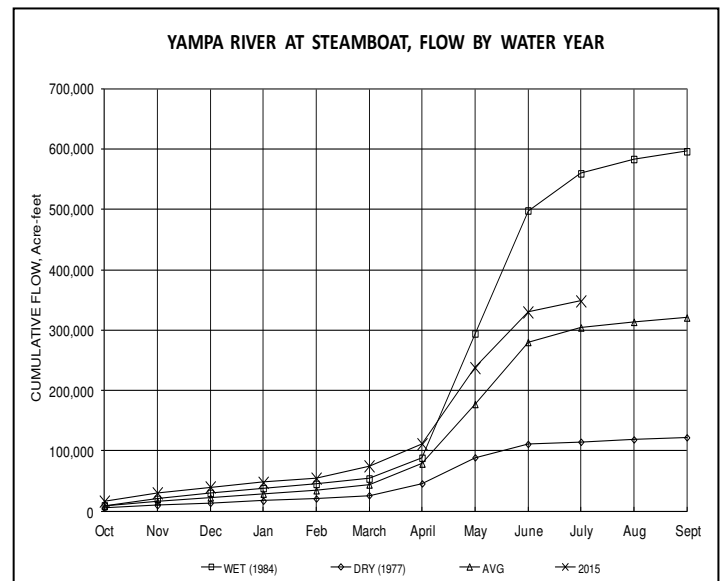
As of July 31st Fish Creek Reservoir was storing approximately 3,751 AF, 90% of capacity. The capacity of Fish Creek Reservoir is 4,167 AF. Yamcolo Reservoir was storing 6,400 AF at the end of July 2015. The capacity of Yamcolo Reservoir is 8,700 AF. On July 31st Elkhead Creek Reservoir was storing 23,347AF. The capacity of Elkhead Creek Reservoir is 24,778 AF. On July 31st, 2015; Stagecoach Reservoir was storing 36,300 AF which is 109% of capacity.

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

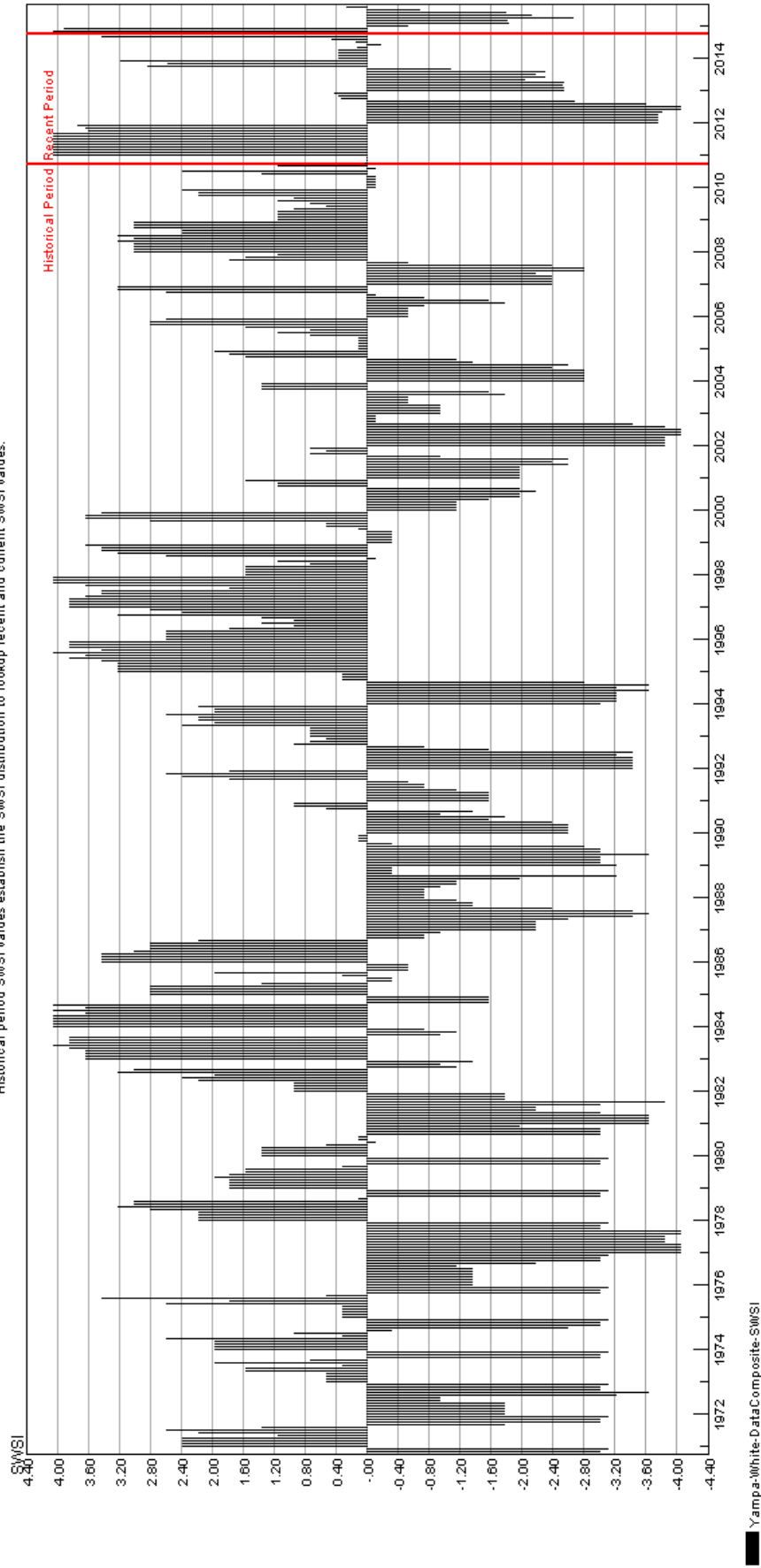
Public Use Impacts

At Stagecoach State Park fly fishing at the Tail Waters has been steady with anglers catching lots of trout. The waters below the dam are at perfect conditions and the fish are hungry. Fishing in the morning, afternoon, and on overcast days are the prime times to catch fish

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



Yampa-White Basin SWSI History Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.

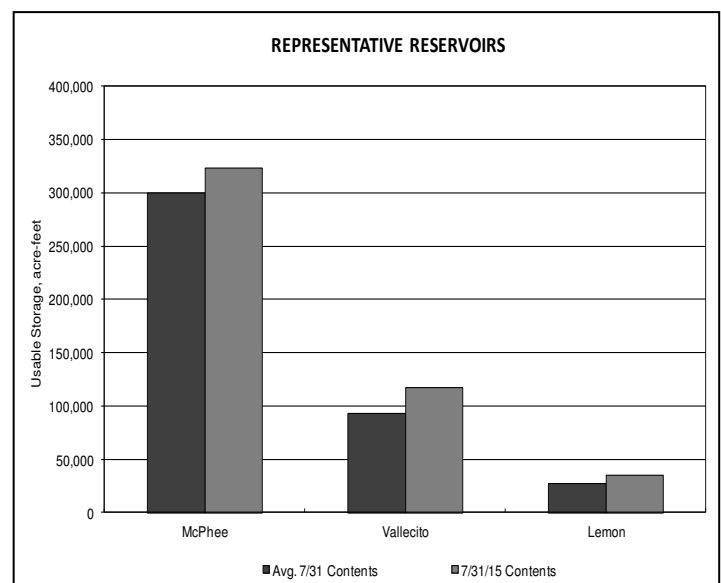
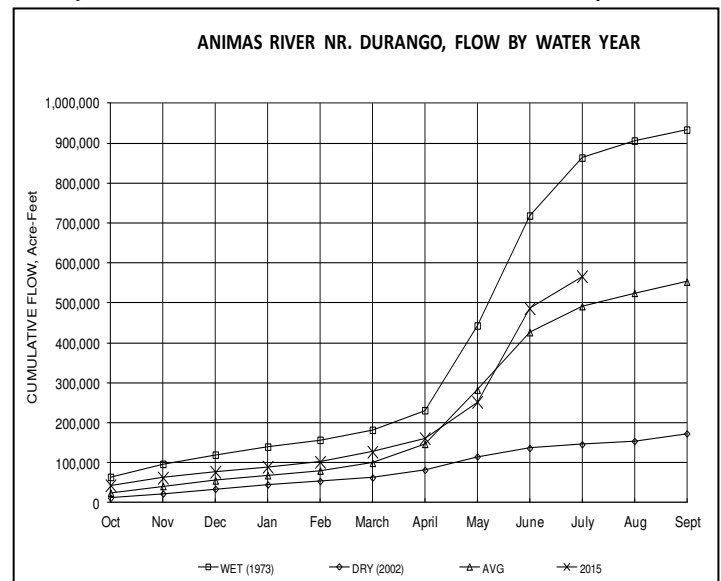


Basinwide Conditions Assessment

The SWSI value for the month was 2.5. Flow at the Animas River at Durango averaged 1,301 cfs (113% of average). The flow at the Dolores River at Dolores averaged 384 cfs (126% of average). The La Plata River at Hesperus averaged 35 cfs (142% of average). Precipitation in Durango was 2.57 inches for the month, 133% of the 30-year average of 1.94 inches. Precipitation was the 31 highest amount recorded in July, in Durango, out of 121 years of record. Precipitation to date in Durango, for the water year, is 17.24 inches, 114% of the 30-year average of 15.08 inches. End of last month precipitation to date, for the water year was 112% of average. The average high and low temperatures for the month of July in Durango were 84o and 52o. In comparison, the 30-year average high and low for the month is 86o and 54o. At the end of the month Vallecito Reservoir contained 117,027 acre-feet compared to its average content of 89,033 acre-feet (131% of average). McPhee Reservoir was up to 323,672 acre-feet compared to its average content of 308,049 (105% of average), while Lemon Reservoir was up to 35,180 acre-feet as compared to its average content of 26,676 acre-feet (132% of average).

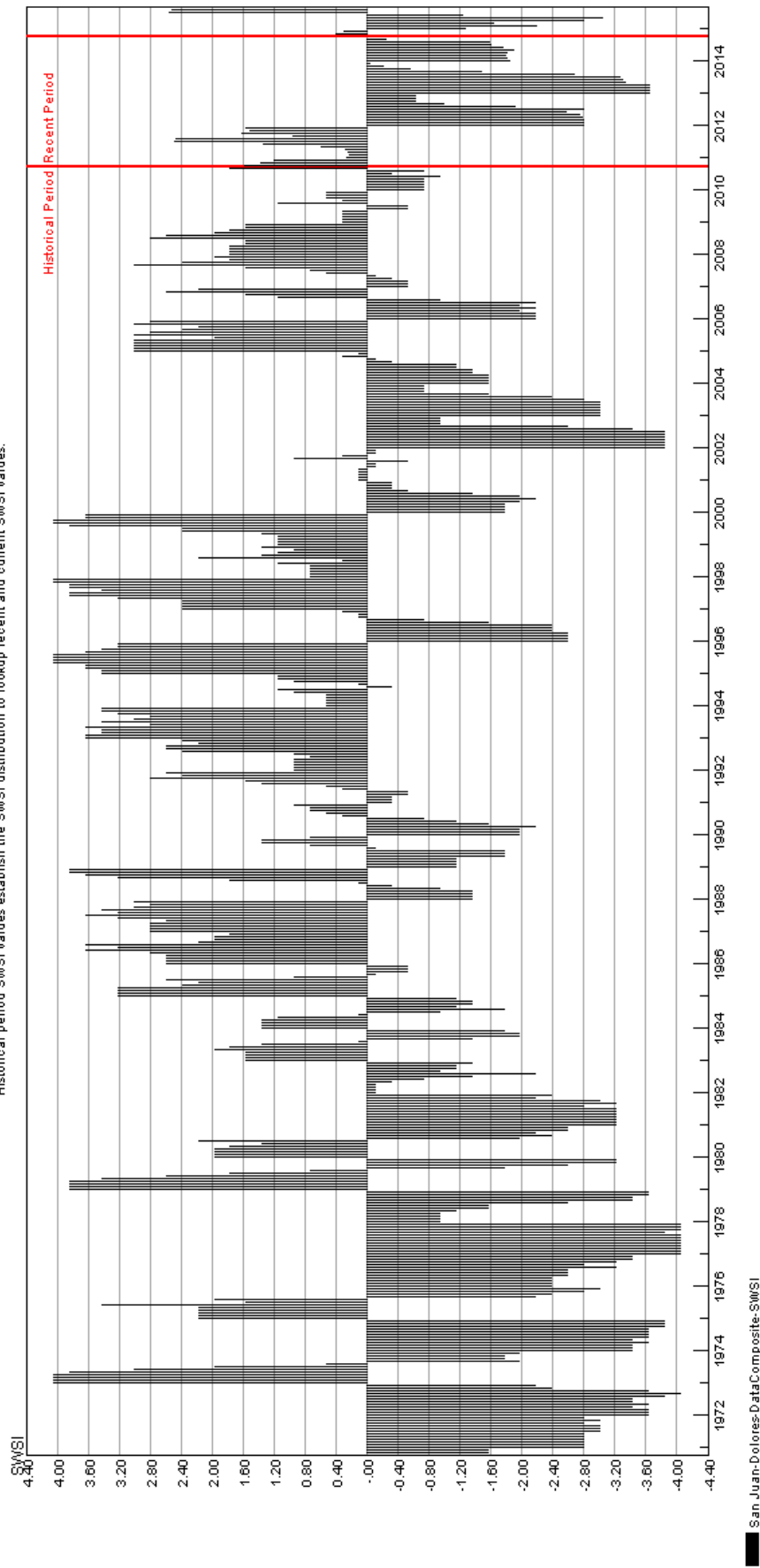
Outlook

Precipitation (2.57 inches) was above average for July in Durango. There were 31 years out of 121 years of record where there was more precipitation than this year. Flows in the rivers within the basin remained above average for the month. There were 42 out of 104 years of record where the total flow past the Animas River at Durango stream gauge was more than this year. There were 26 out of 105 years of record where the total flow past the Dolores stream gauge was more than this year and 20 out of 98 years of record where the total flow past the La Plata River at Hesperus gauge was more than this year.



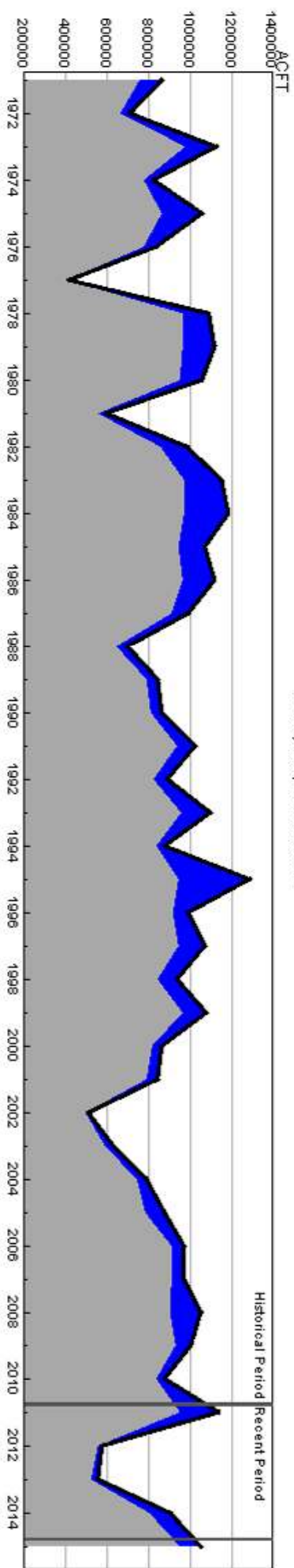
San Juan-Dolores Basin SWSI History

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



HUC 14020002 (Upper Gunnison) Surface Water Supply - AUG

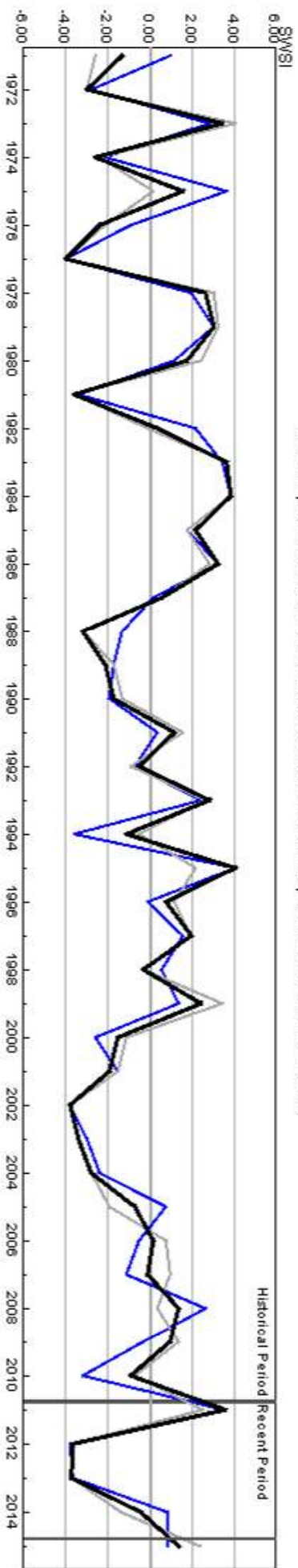
Monthly component volumes



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

HUC 14020002 (Upper Gunnison) SWSI Values - AUG

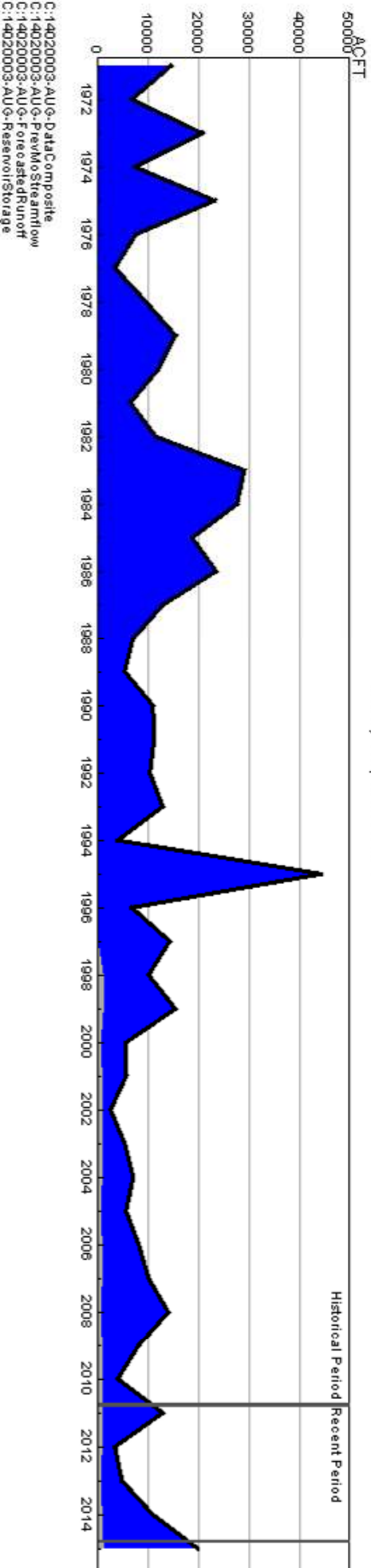
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

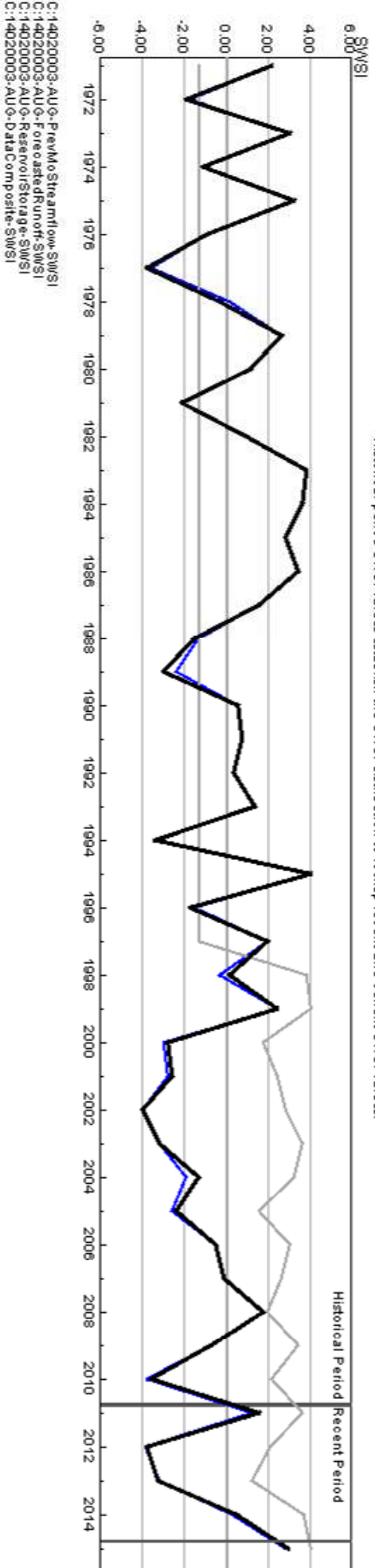
HUC 14020003 (Tomichi) Surface Water Supply - AUG

Monthly component volumes

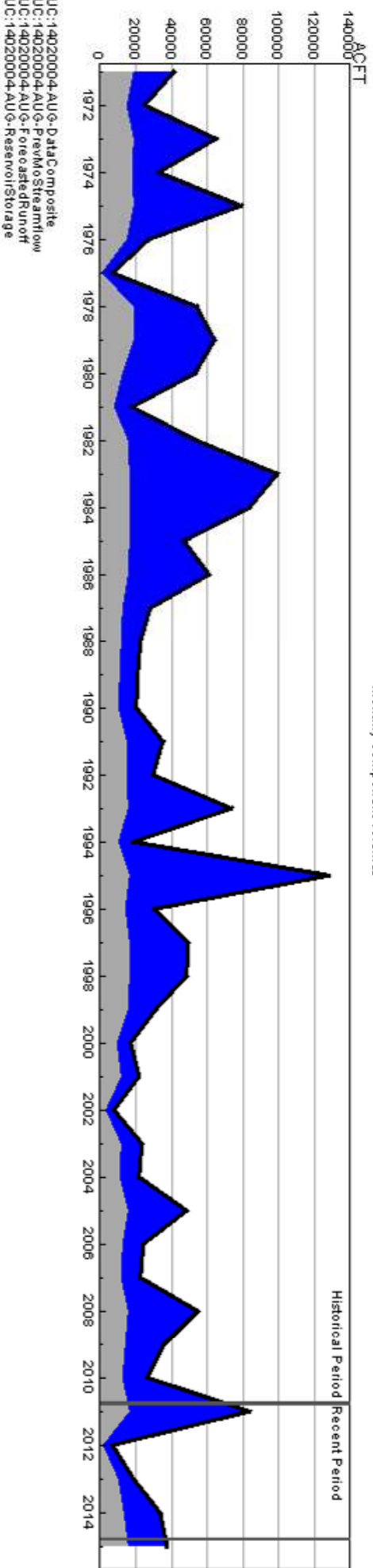


HUC 14020003 (Tomichi) SWSI Values - AUG

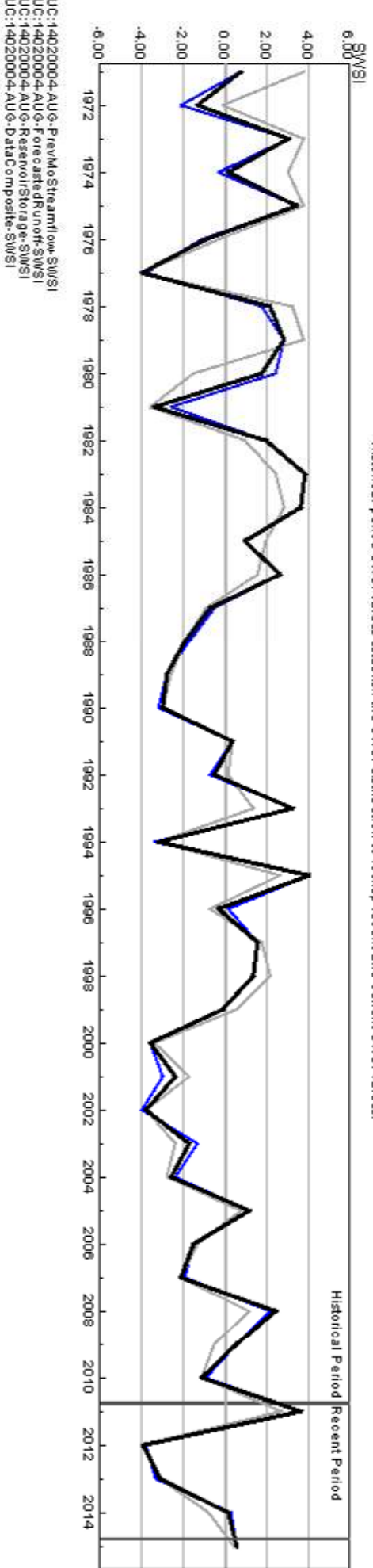
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14020004 (North Fork Gunnison) Surface Water Supply - AUG Monthly component volumes

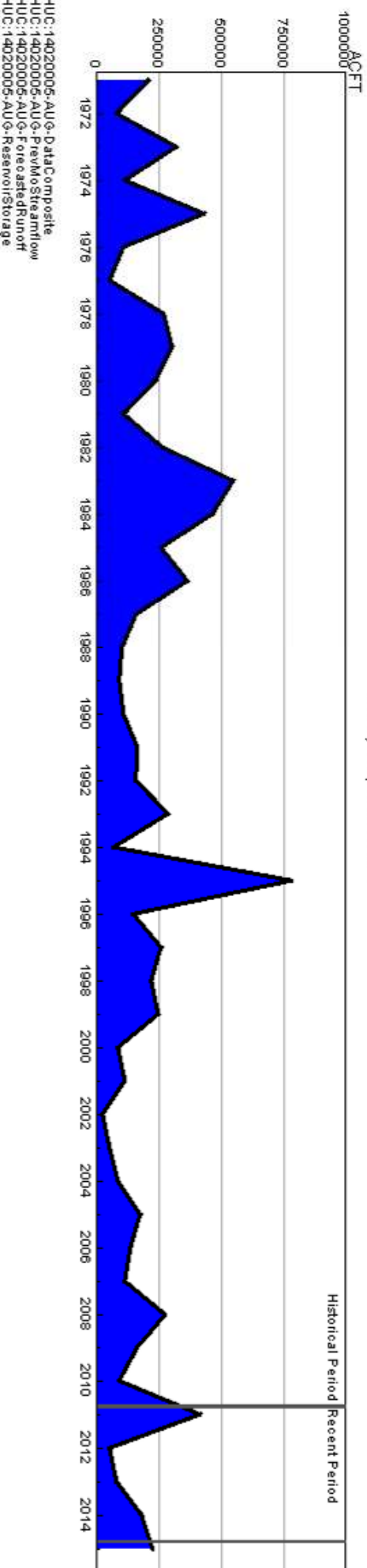


HUC 14020004 (North Fork Gunnison) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



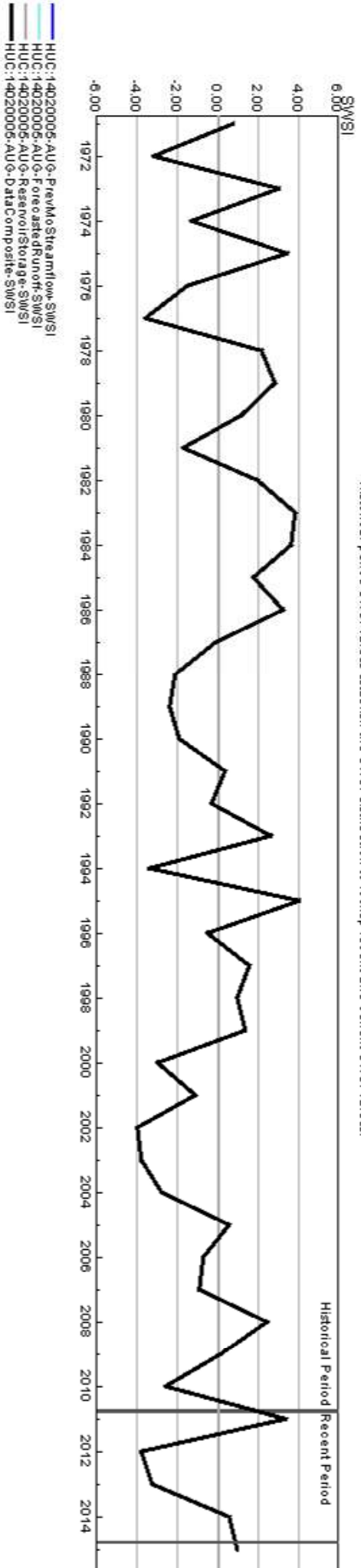
HUC 14020005 (Lower Gunnison) Surface Water Supply - AUG

Monthly component volumes

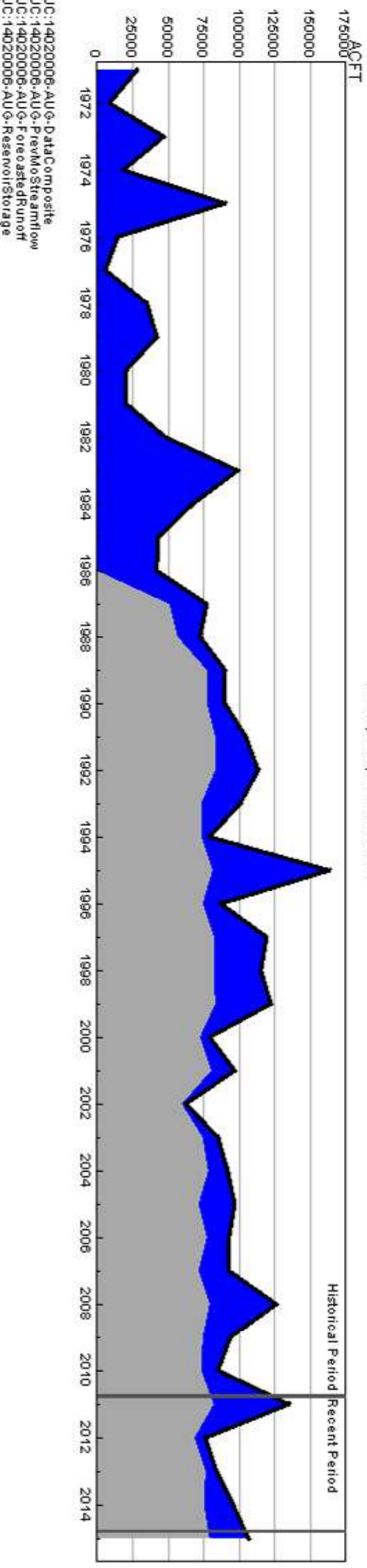


HUC 14020005 (Lower Gunnison) SWSI Values - AUG

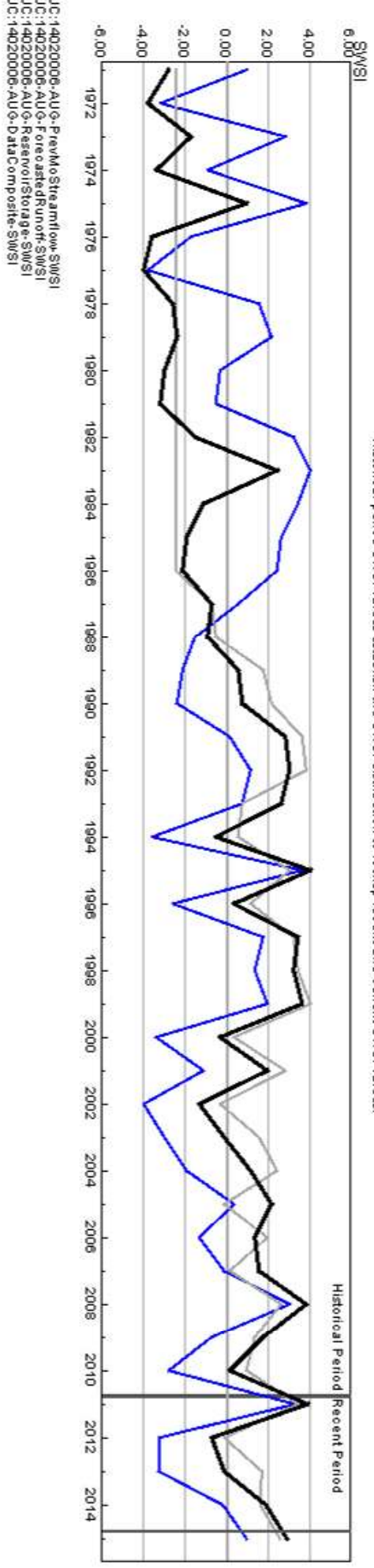
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14020006 (Uncompahange) Surface Water Supply - AUG Monthly component volumes

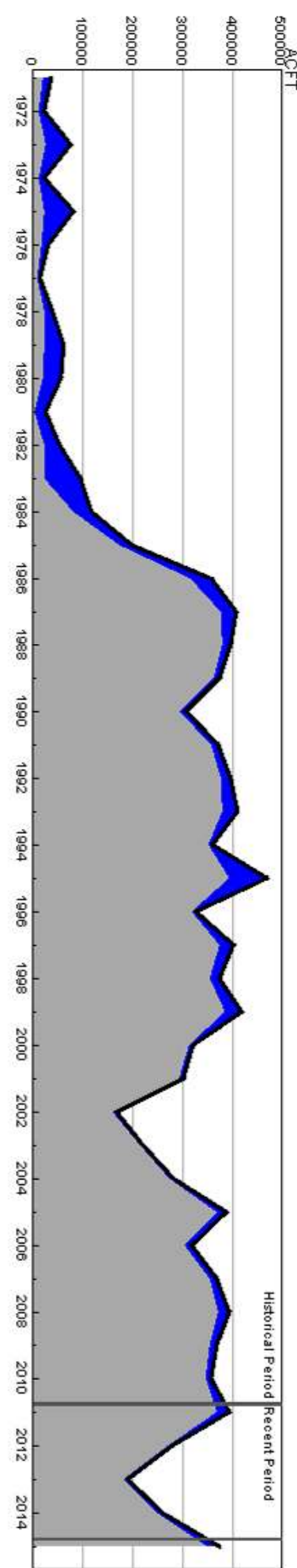


HUC 14020006 (Uncompahange) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14030002 (Upper Dolores) Surface Water Supply - AUG

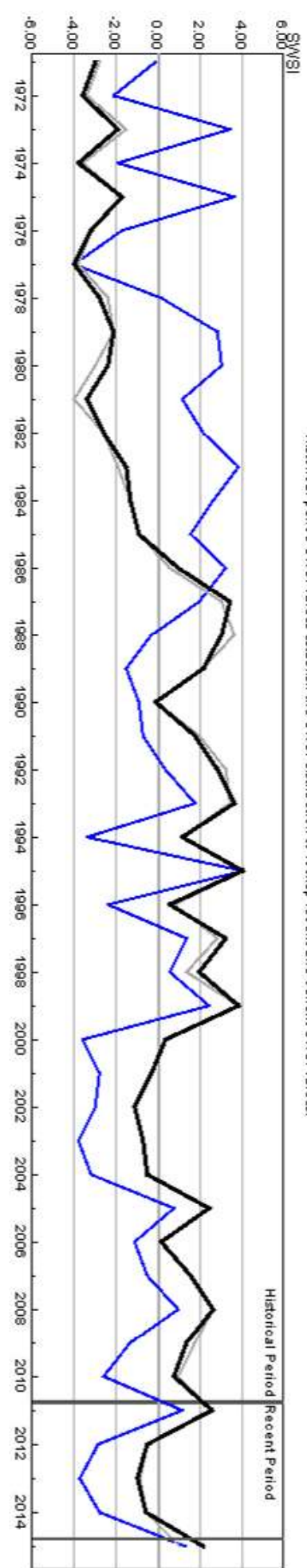
Monthly component volumes



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

HUC 14030002 (Upper Dolores) SWSI Values - AUG

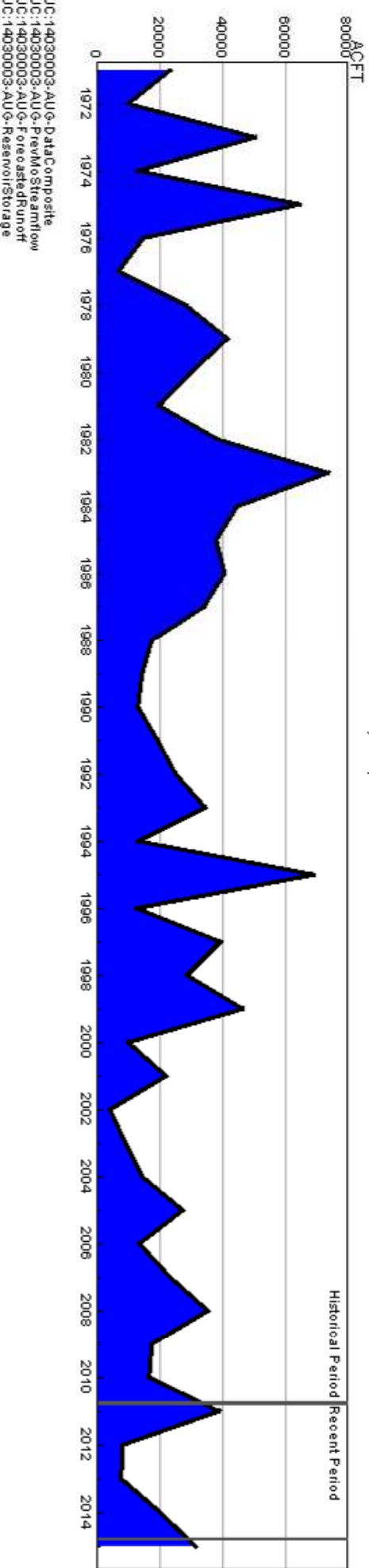
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC:14030002-AUG-PrevMoStreamflow-SWSI
HUC:14030002-AUG-ForecastedRunoff-SWSI
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HUC:14030002-AUG-DataComposite-SWSI

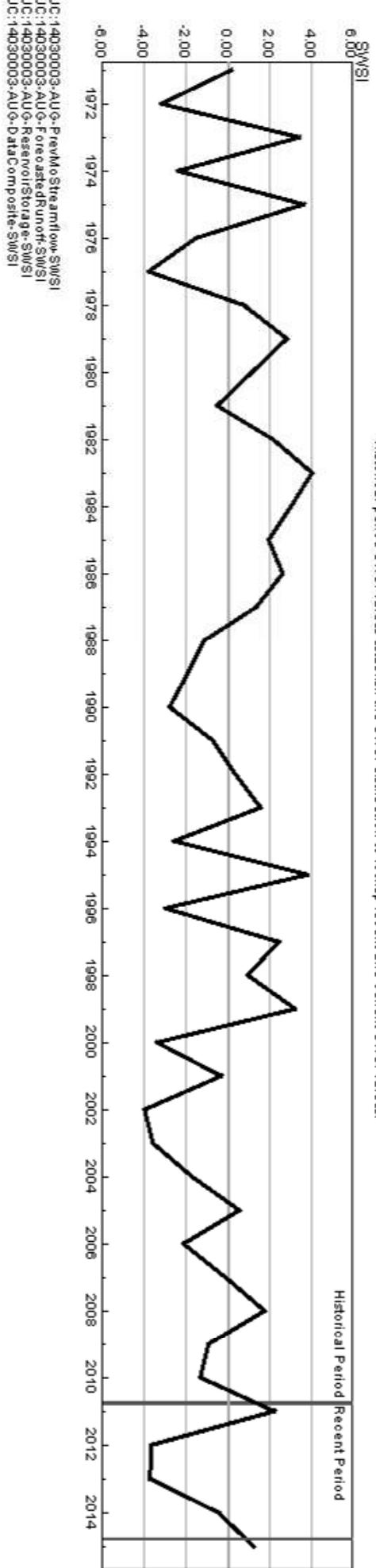
HUC 14030003 (San Miguel) Surface Water Supply - AUG

Monthly component volumes

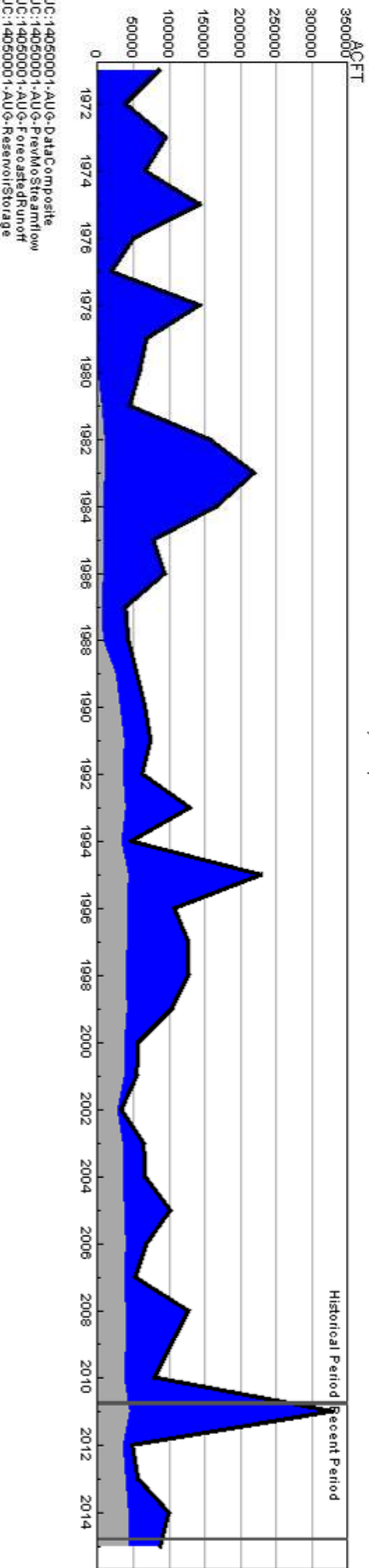


HUC 14030003 (San Miguel) SWSI Values - AUG

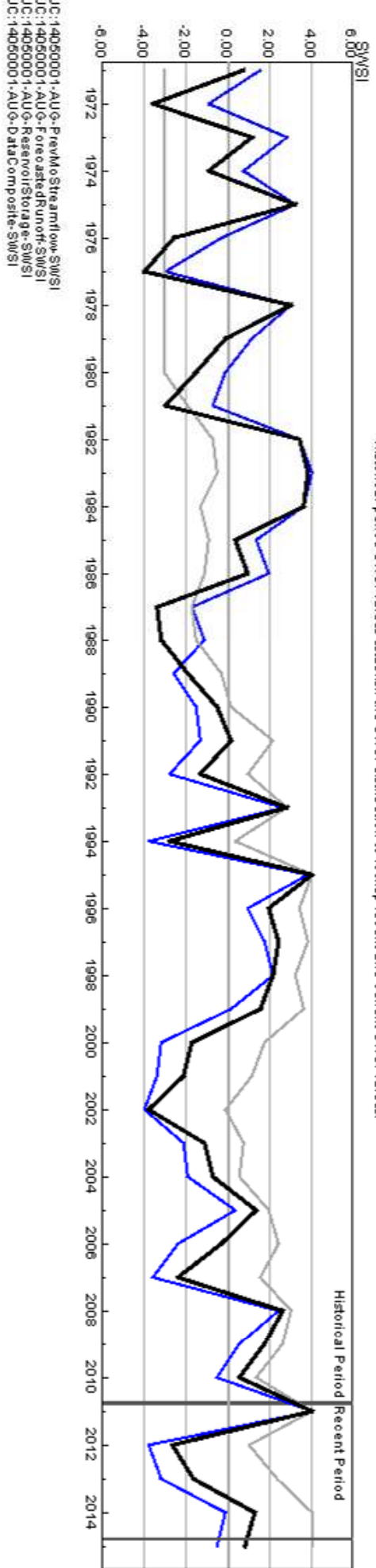
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14050001 (Upper Yampa) Surface Water Supply - AUG Monthly component volumes

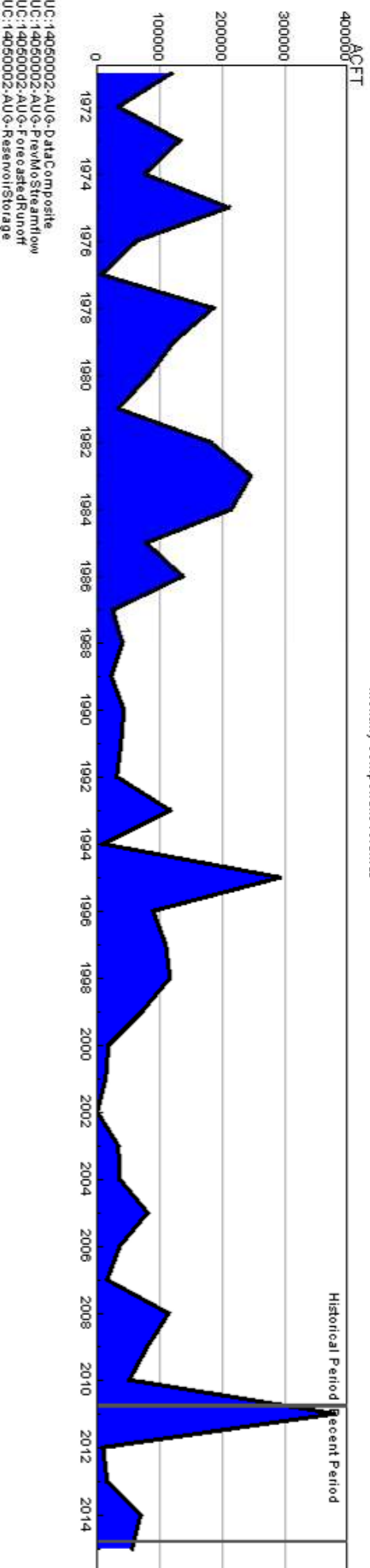


HUC 14050001 (Upper Yampa) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



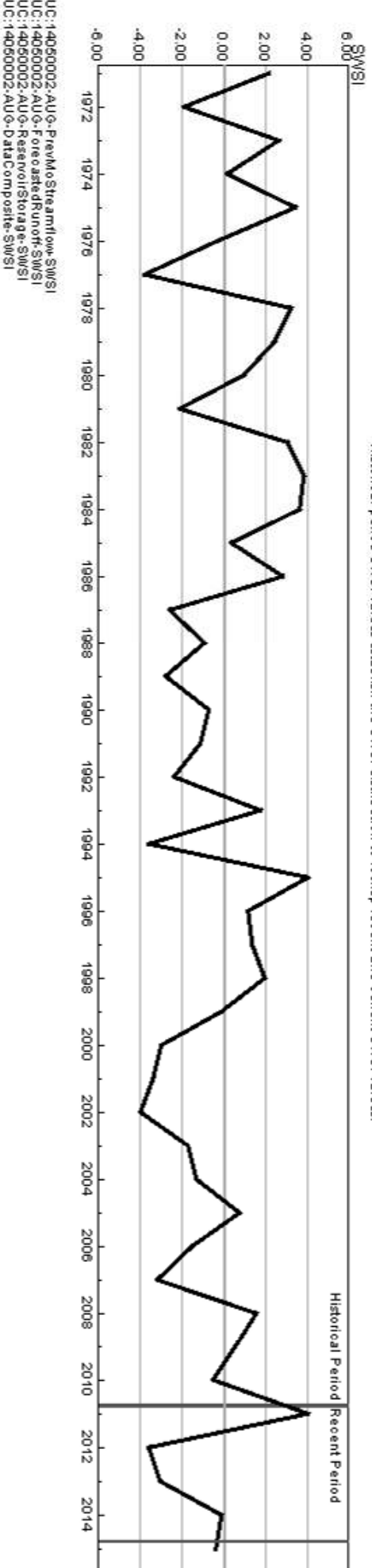
HUC 14050002 (Lower Yampa) Surface Water Supply - AUG

Monthly component volumes



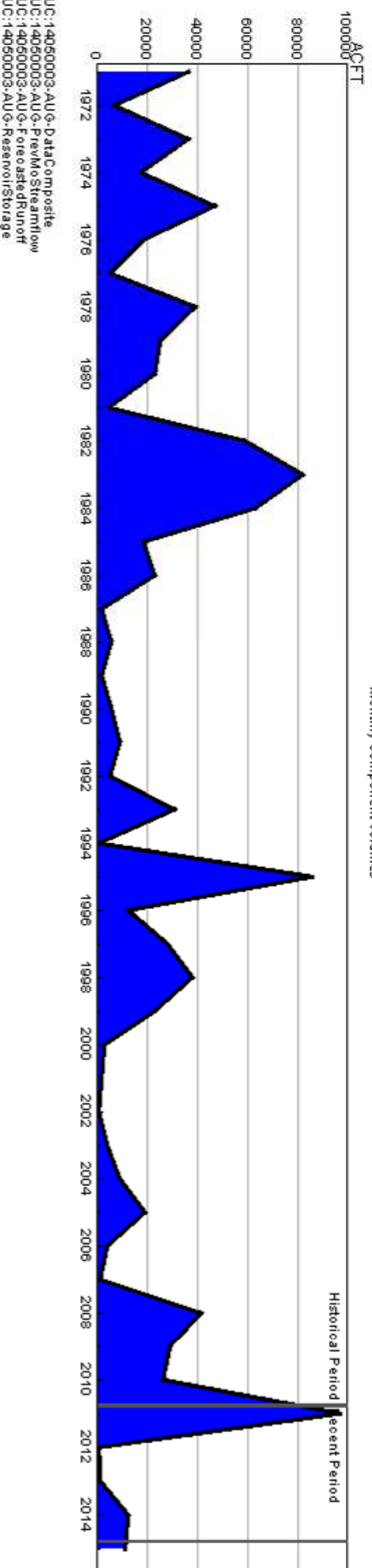
HUC 14050002 (Lower Yampa) SWSI Values - AUG

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



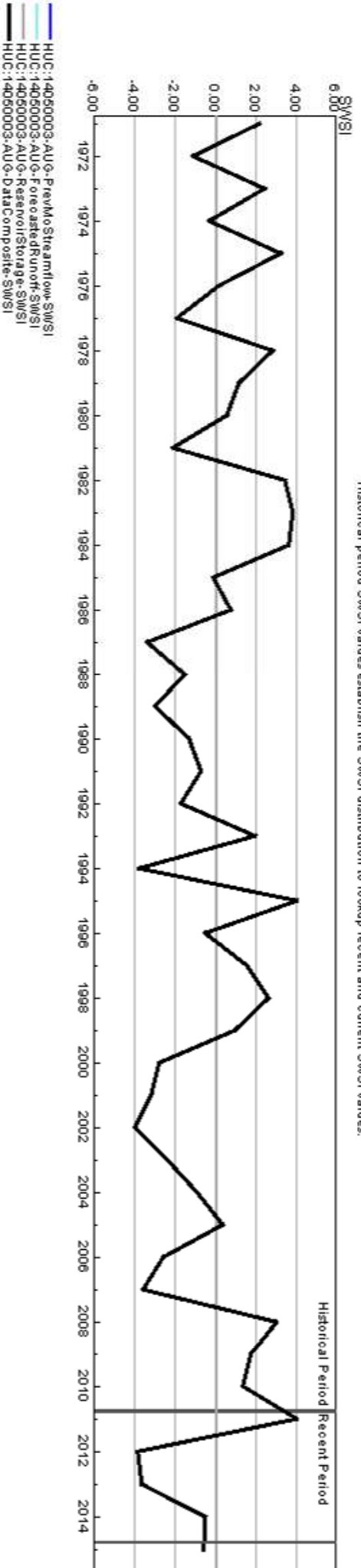
HUC 14050003 (Little Snake) Surface Water Supply - AUG

Monthly component volumes



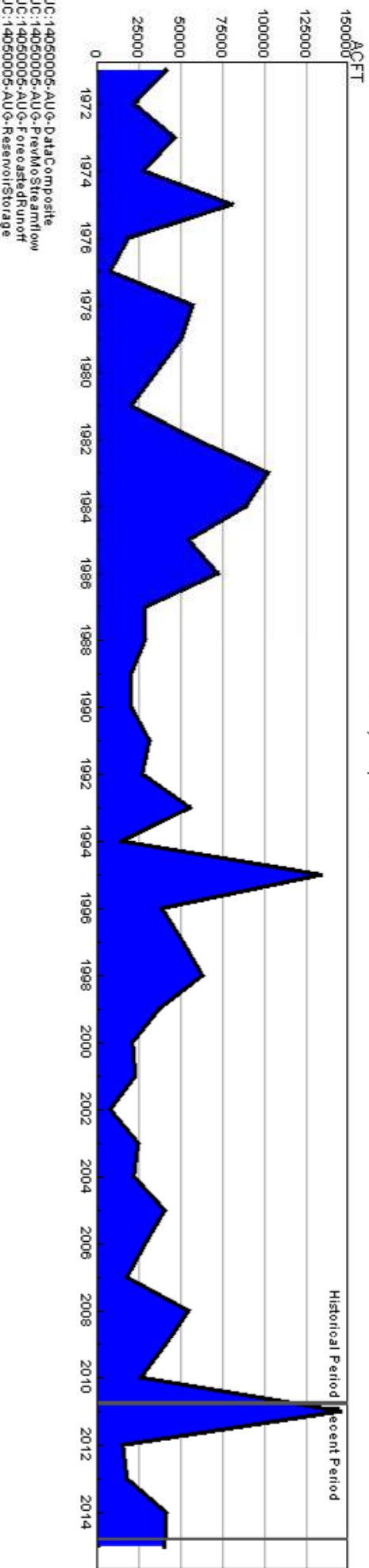
HUC 14050003 (Little Snake) SWSI Values - AUG

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



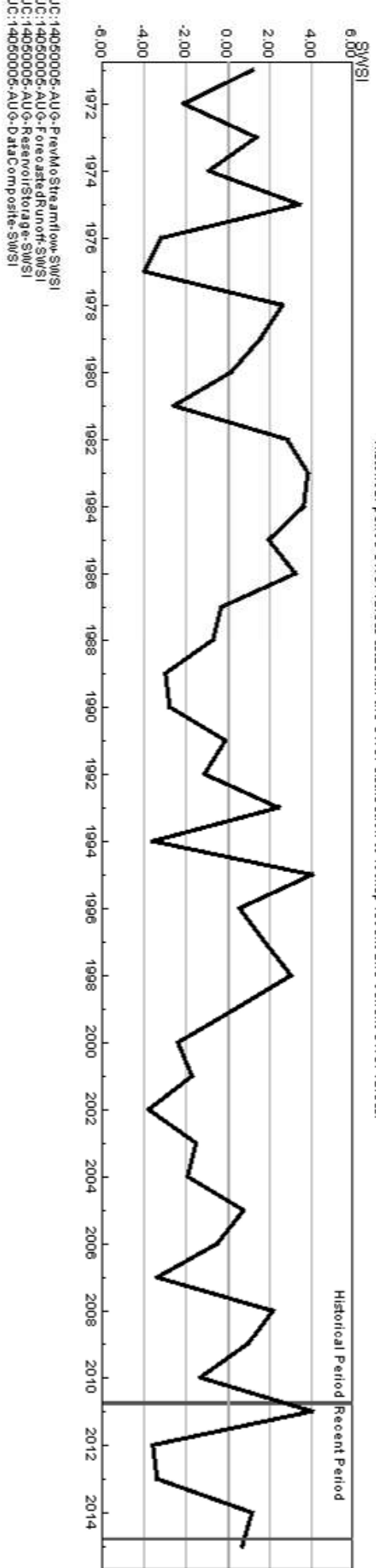
HUC 14050005 (Upper White) Surface Water Supply - AUG

Monthly component volumes



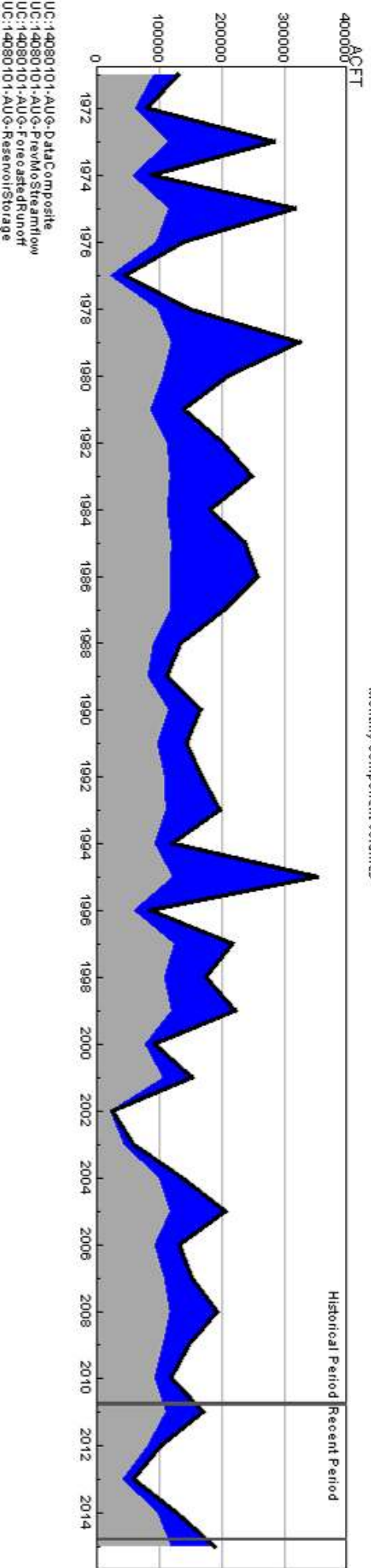
HUC 14050005 (Upper White) SWSI Values - AUG

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



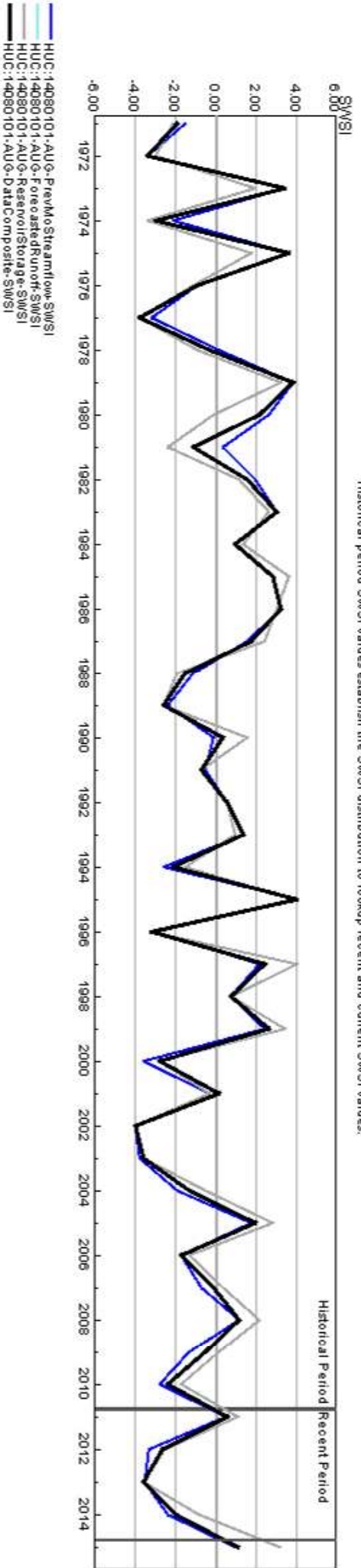
HUC 14080101 (Upper San Juan) Surface Water Supply - AUG

Monthly component volumes



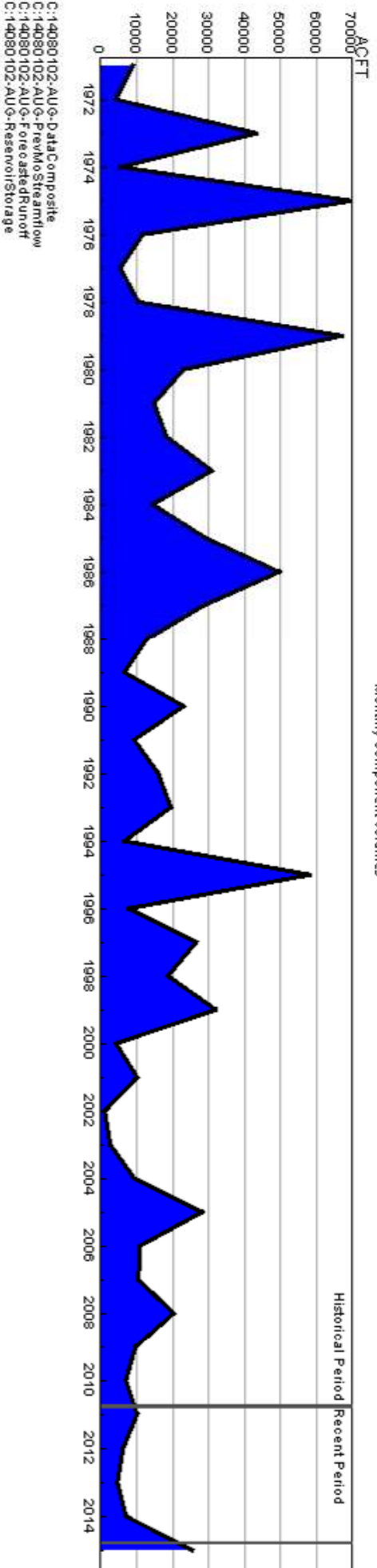
HUC 14080101 (Upper San Juan) SWSI Values - AUG

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



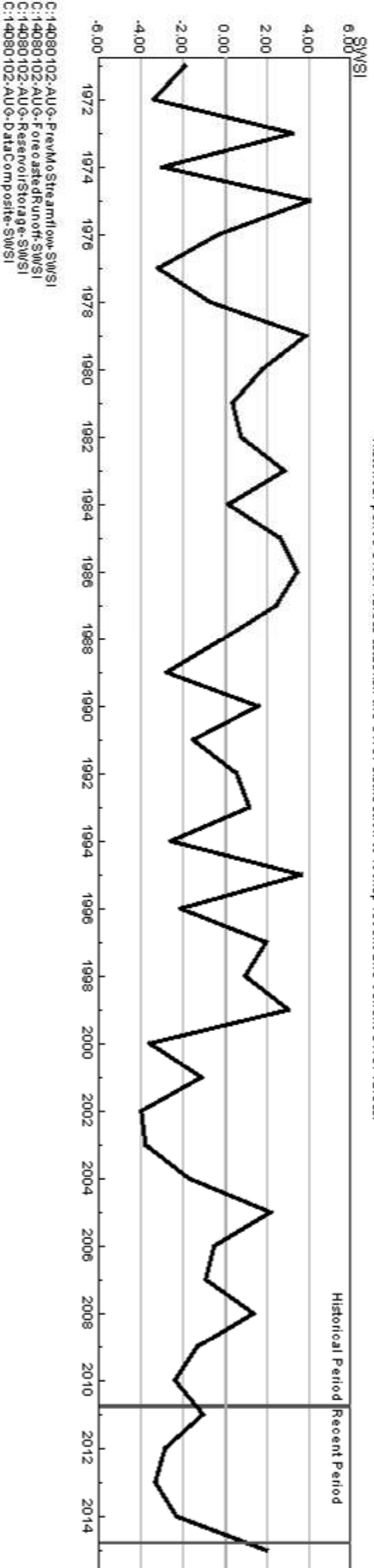
HUC 14080102 (Piedra) Surface Water Supply - AUG

Monthly component volumes



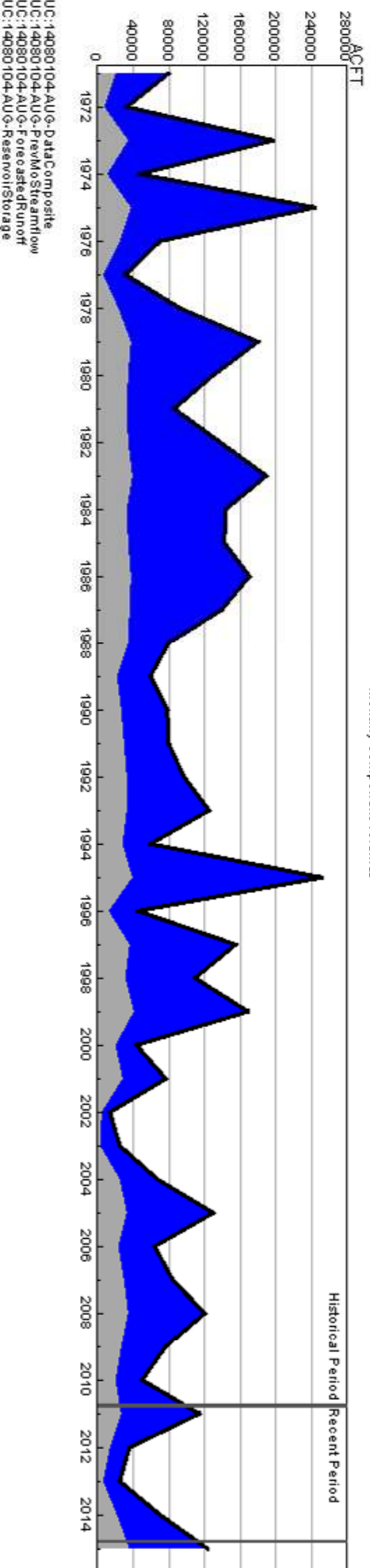
HUC 14080102 (Piedra) SWSI Values - AUG

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



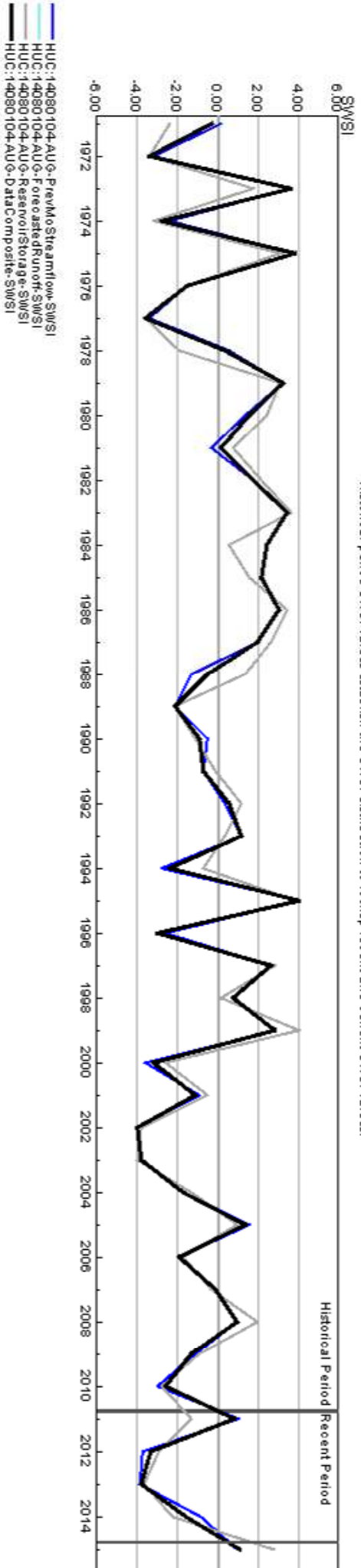
HUC 14080104 (Animas) Surface Water Supply - AUG

Monthly component volumes



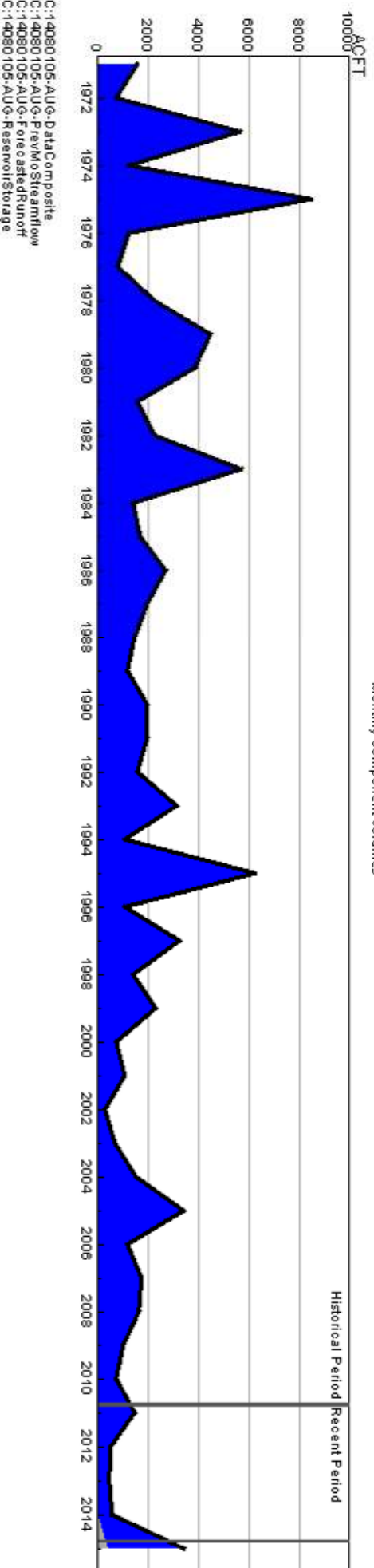
HUC 14080104 (Animas) SWSI Values - AUG

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



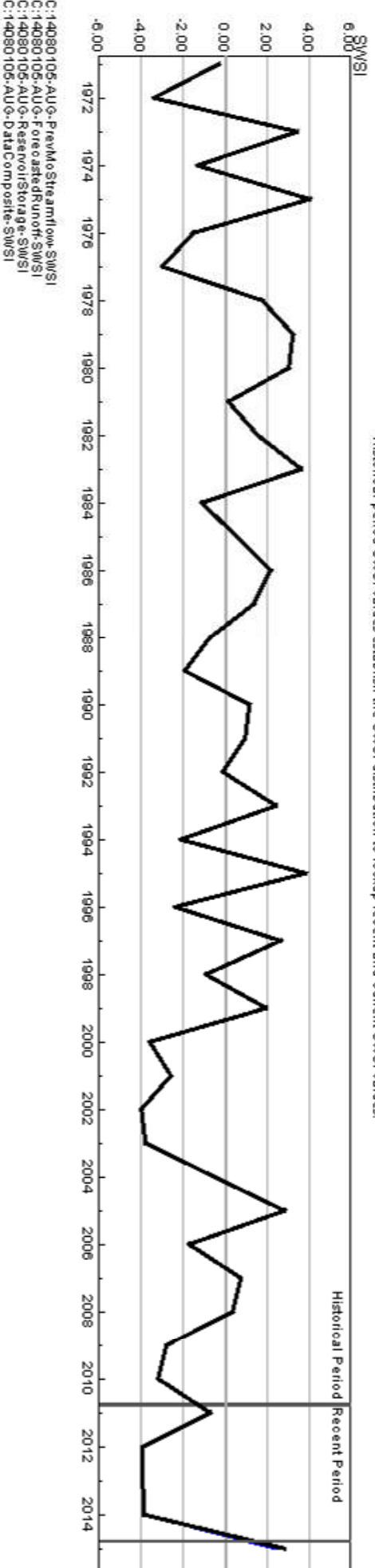
HUC 14080105 (Middle San Juan) Surface Water Supply - AUG

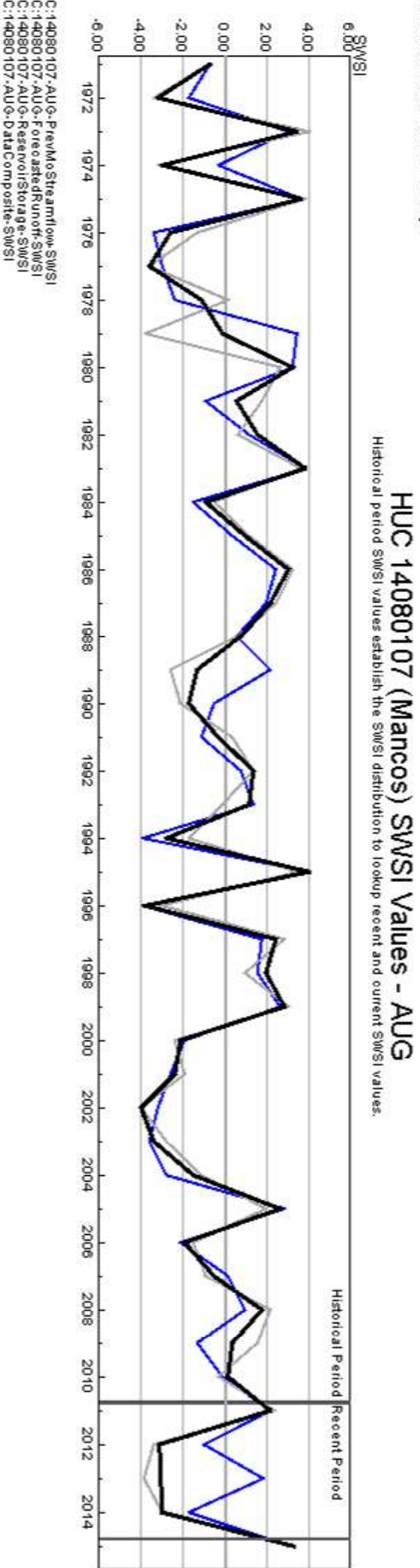
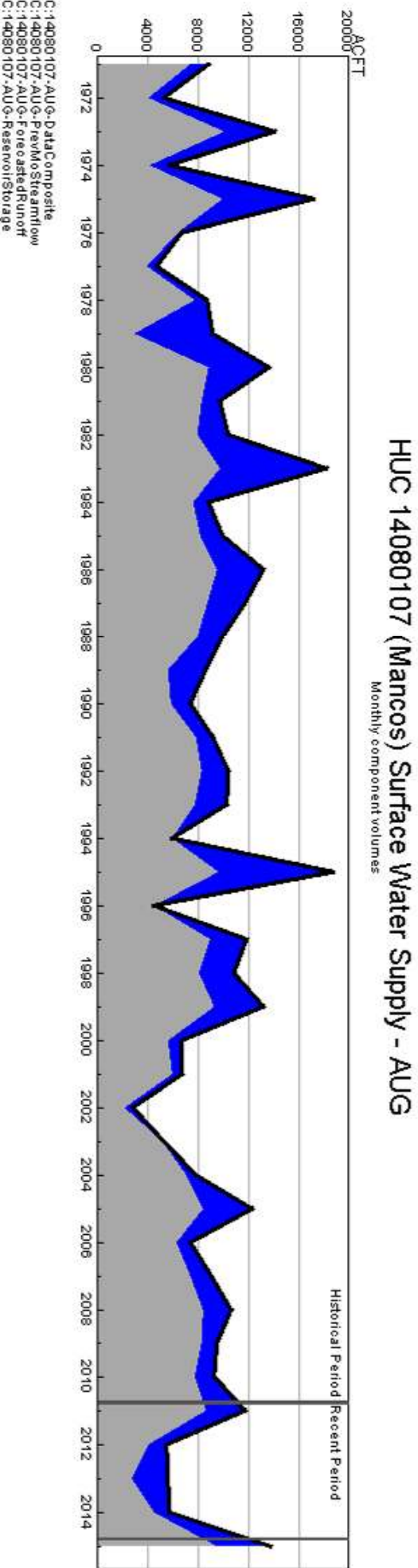
Monthly component volumes



HUC 14080105 (Middle San Juan) SWSI Values - AUG

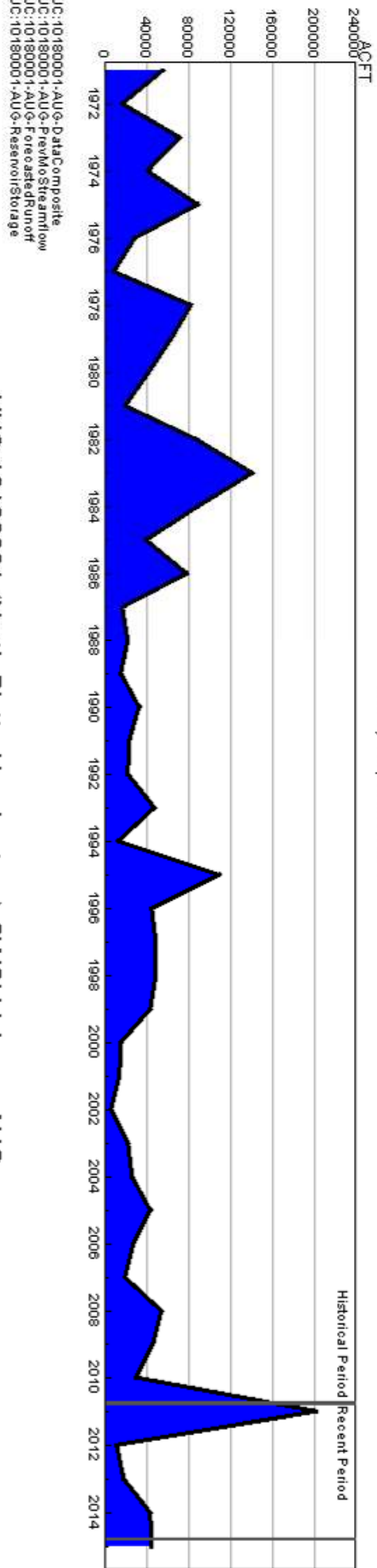
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.





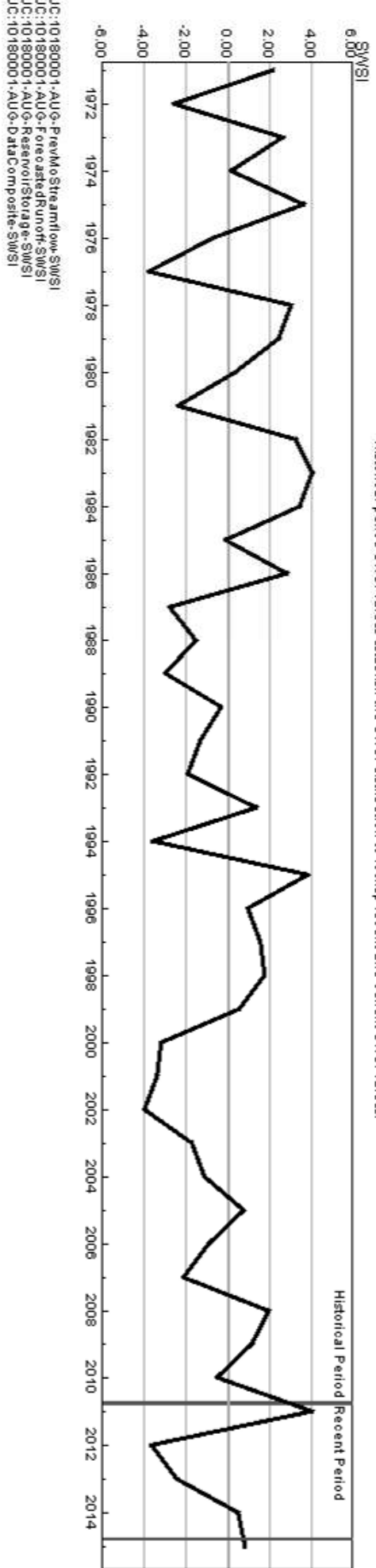
HUC 10180001 (North Platte Headwaters) Surface Water Supply - AUG

Monthly component volumes

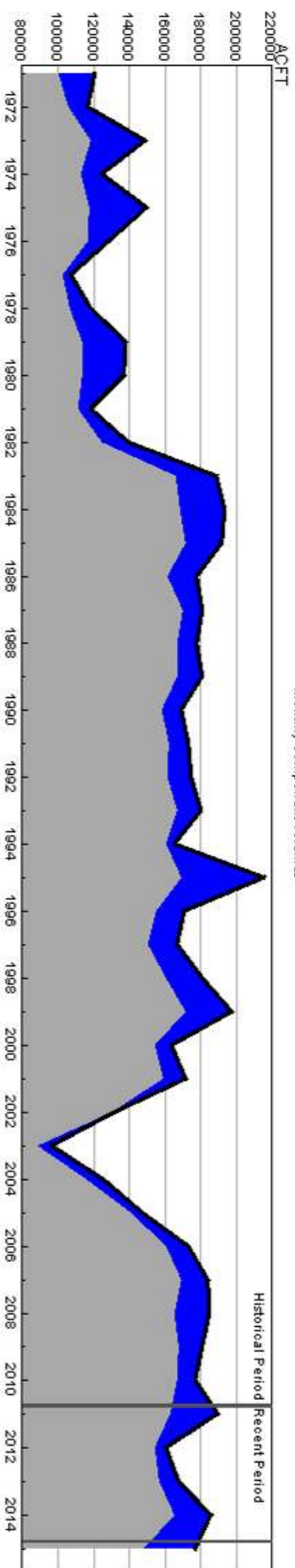


HUC 10180001 (North Platte Headwaters) SWSI Values - AUG

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

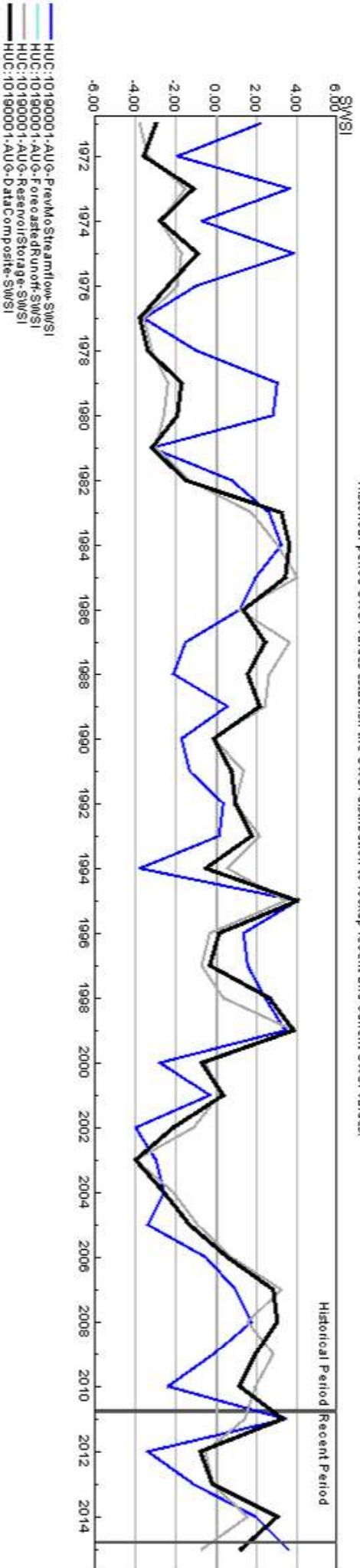


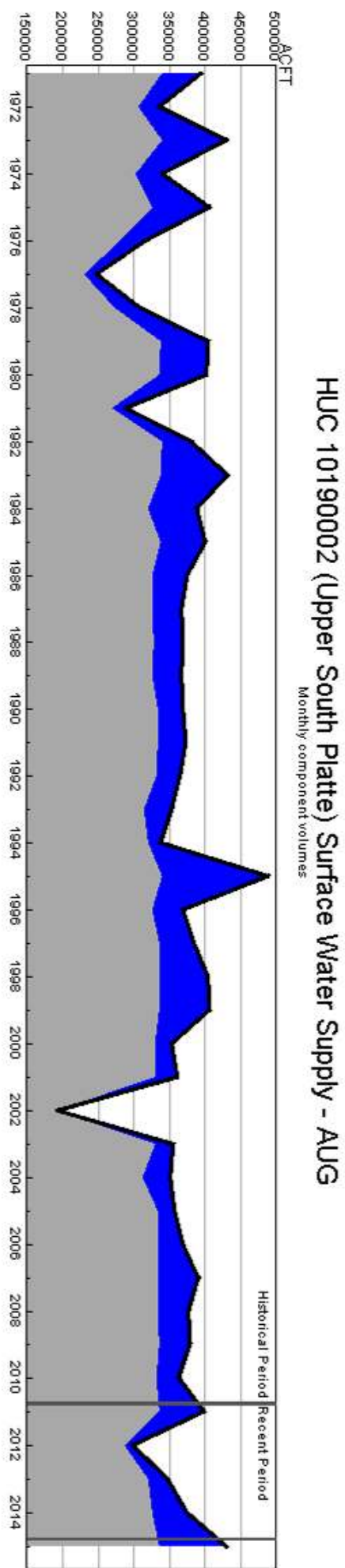
HUC 10190001 (South Platte Headwater) Surface Water Supply - AUG Monthly component volumes



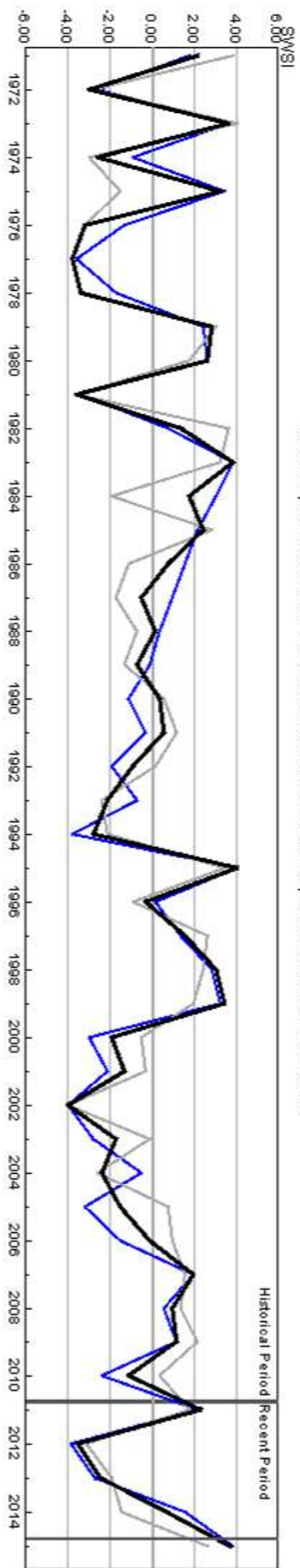
HUC:10190001-AUG-DataComposite
 HUC:10190001-AUG-PrevMoStreamflow
 HUC:10190001-AUG-ForecastedRunoff
 HUC:10190001-AUG-ReservoirStorage

HUC 10190001 (South Platte Headwater) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.





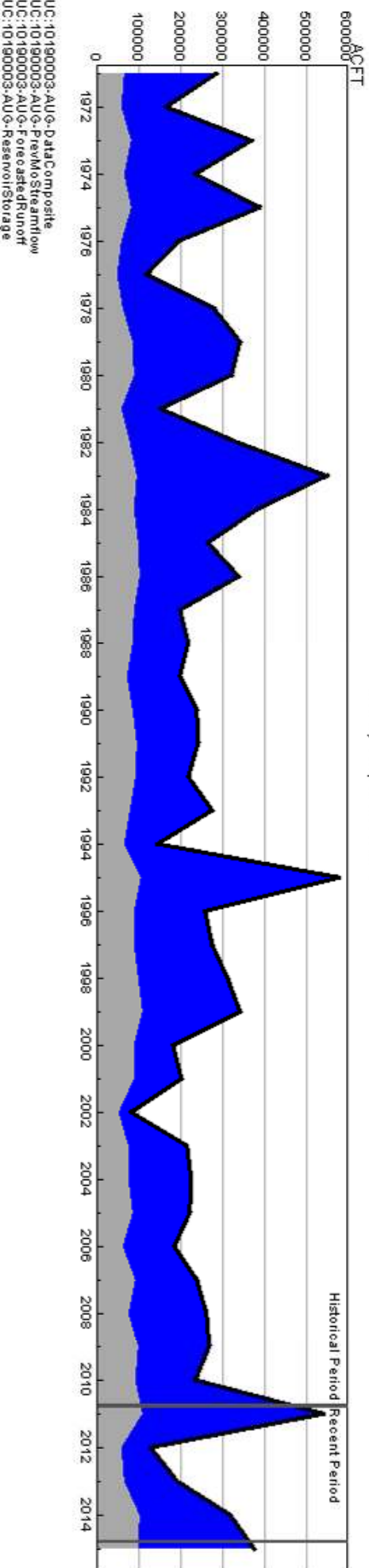
HUC:10190002-AUG-DataComposite
HUC:10190002-AUG-PrevMoStreamflow
HUC:10190002-AUG-ForecastedRunoff
HUC:10190002-AUG-ReservoirStorage



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

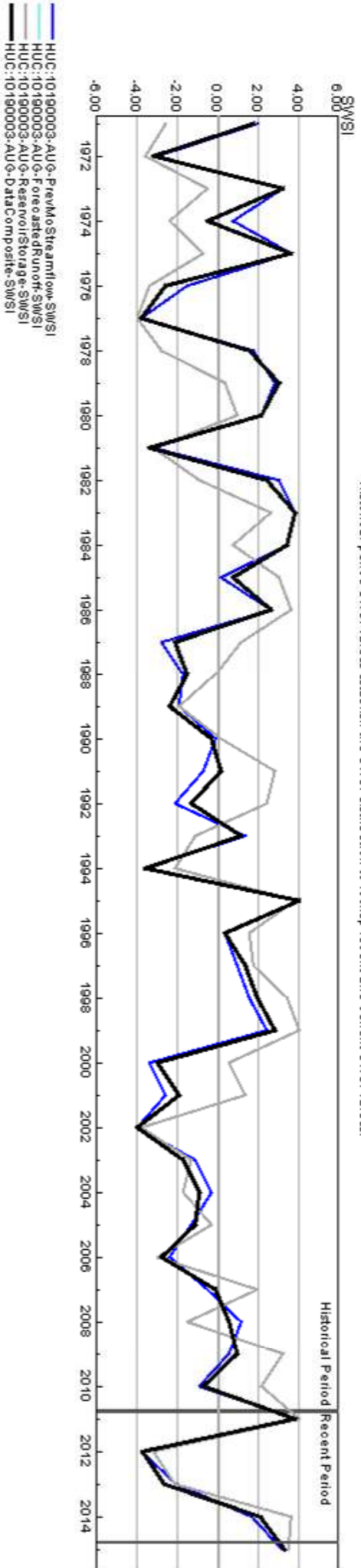
HUC 10190003 (Middle South Platte-Cherry Creek) Surface Water Supply - AUG

Monthly component volumes



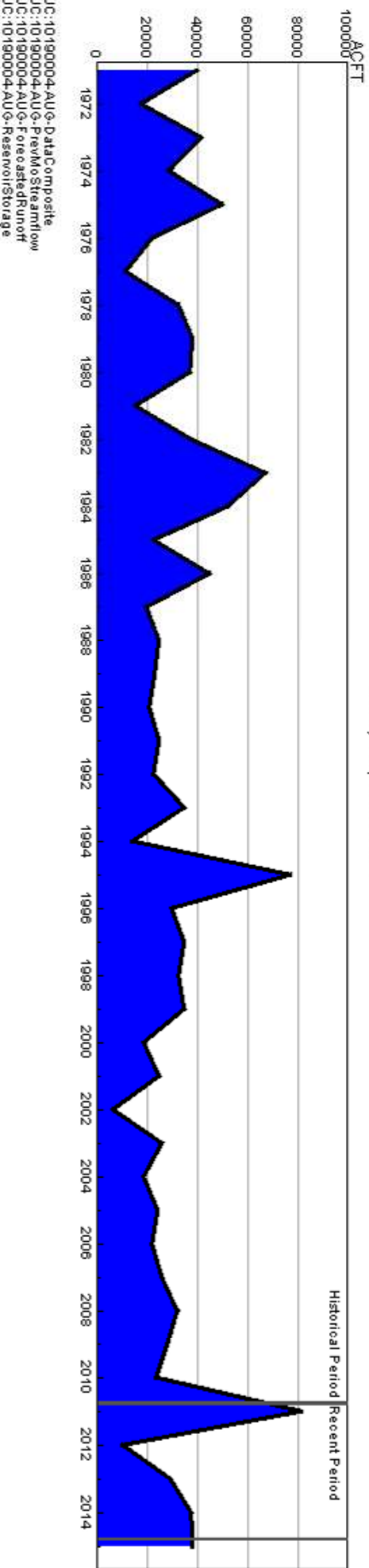
HUC 10190003 (Middle South Platte-Cherry Creek) SWSI Values - AUG

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



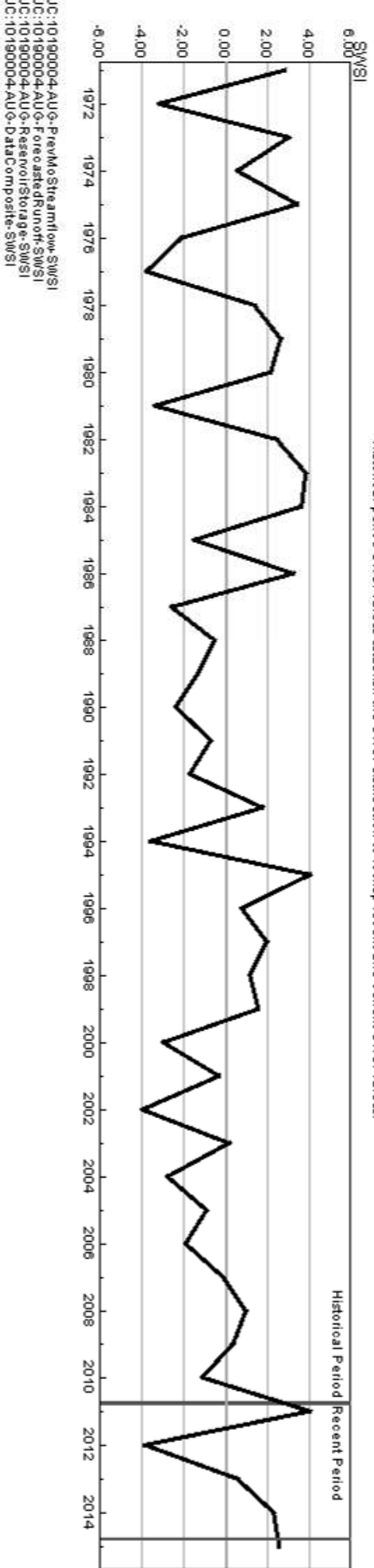
HUC 10190004 (Clear) Surface Water Supply - AUG

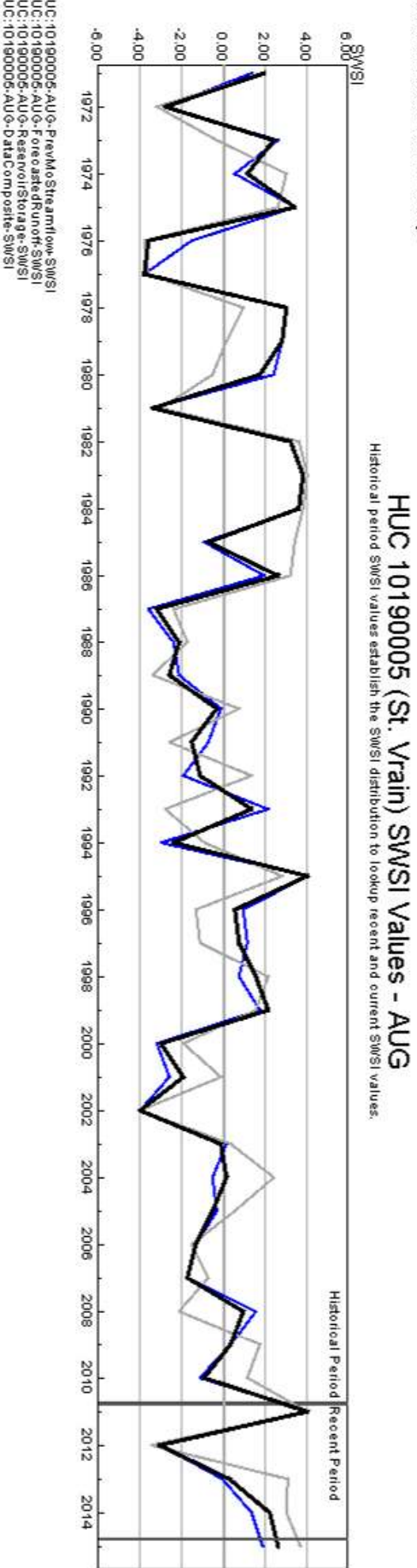
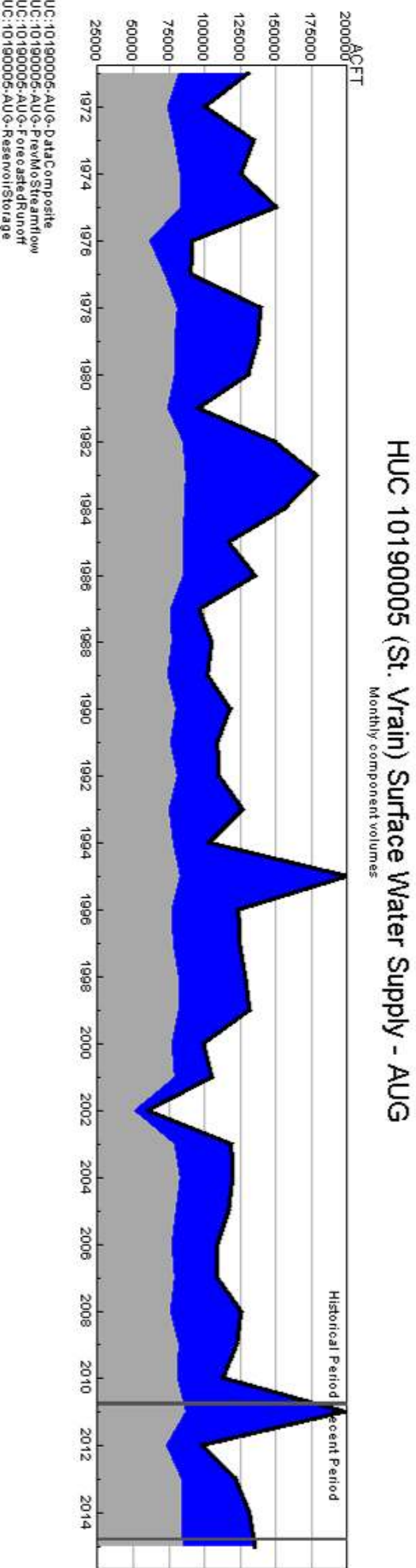
Monthly component volumes



HUC 10190004 (Clear) SWSI Values - AUG

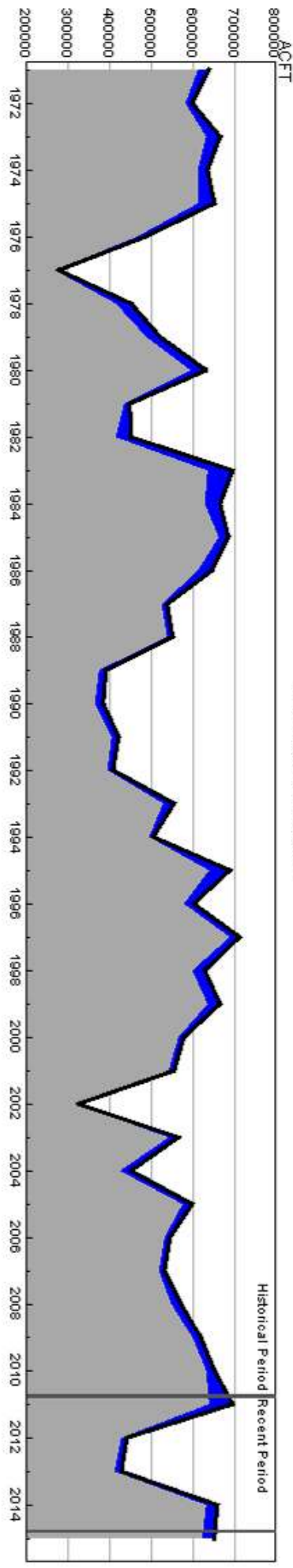
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.





HUC 10190006 (Big Thompson) Surface Water Supply - AUG

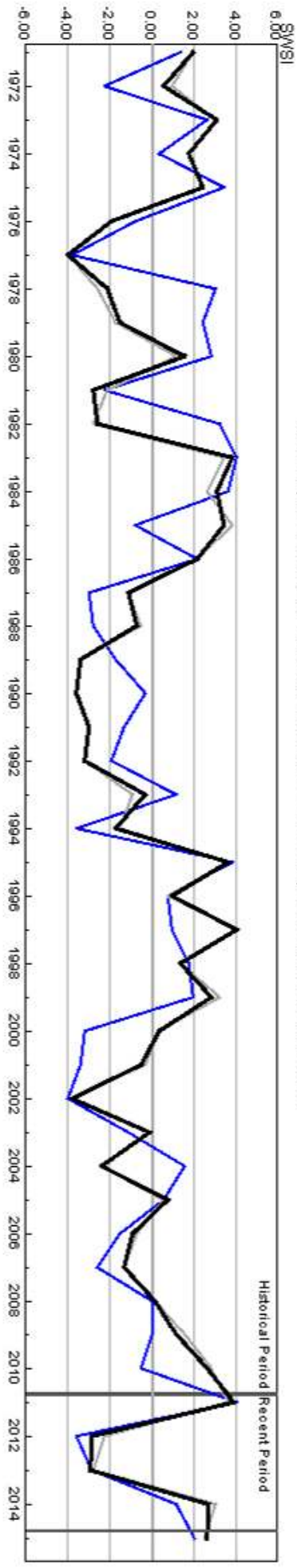
Monthly component volumes



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

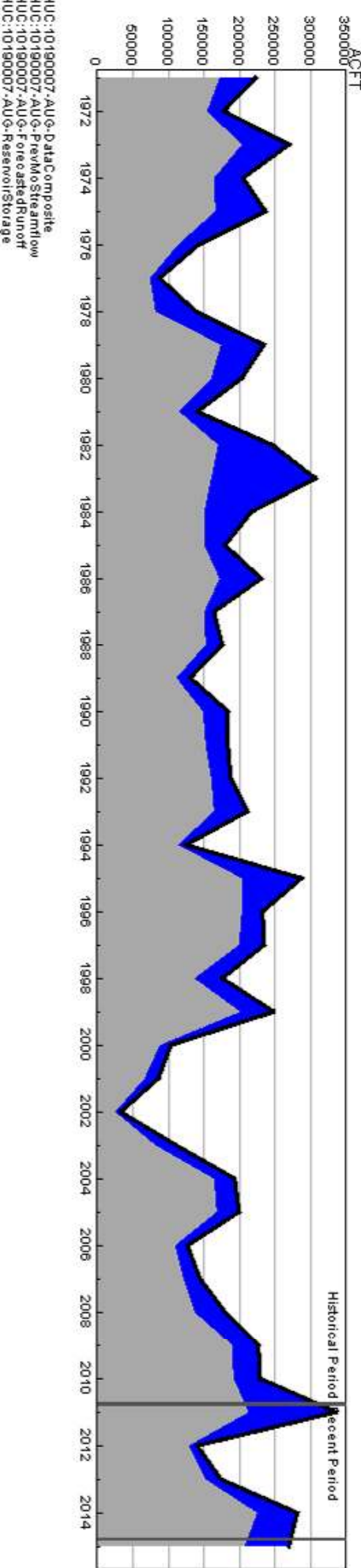
HUC 10190006 (Big Thompson) SWSI Values - AUG

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

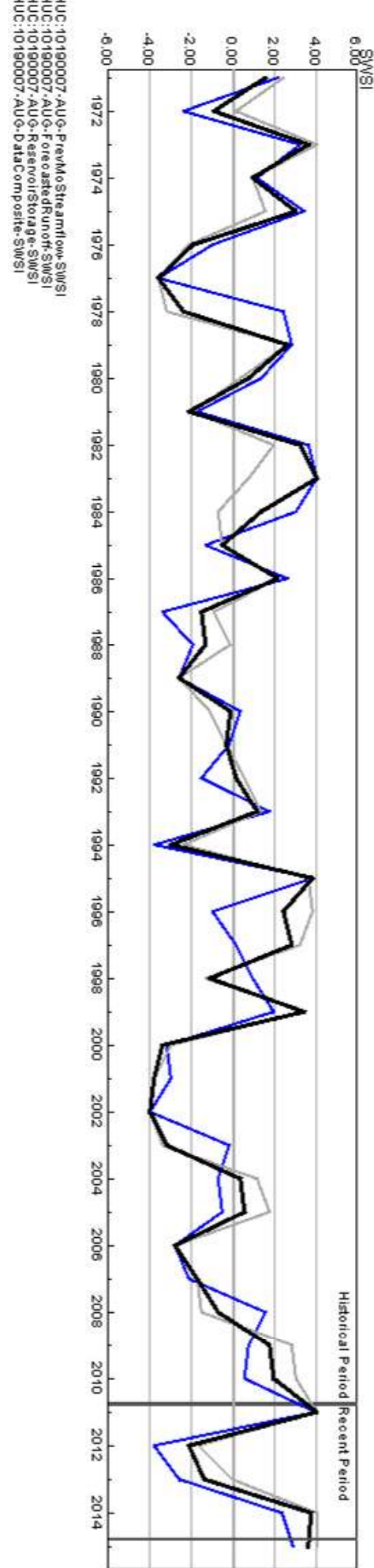


HUC:10190006-AUG-PrevMoStreamflow-SWSI
HUC:10190006-AUG-ForecastedRunoff-SWSI
HUC:10190006-AUG-ReservoirStorage-SWSI
HUC:10190006-AUG-DataComposite-SWSI

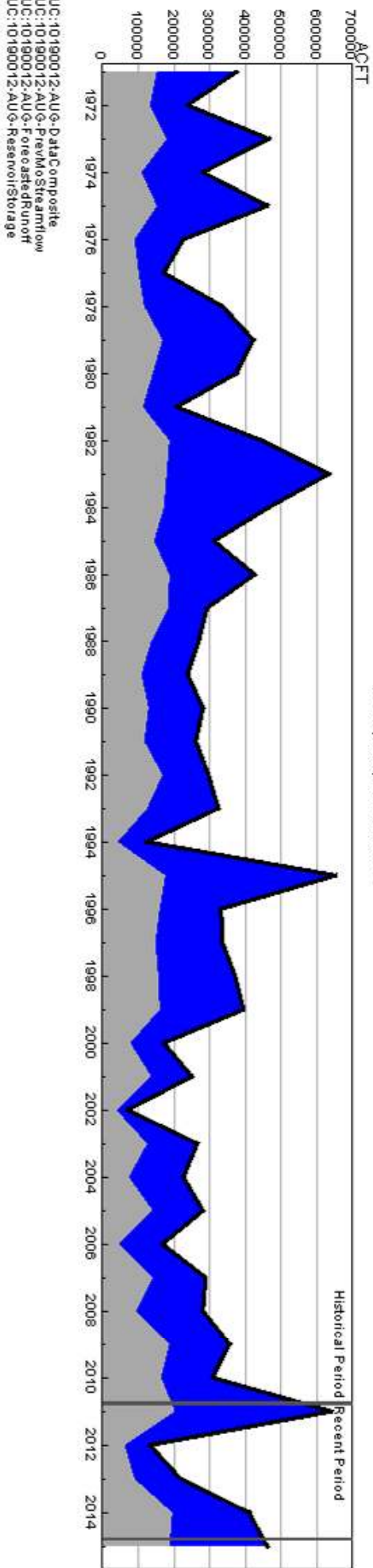
HUC 10190007 (Cache La Poudre) Surface Water Supply - AUG Monthly component volumes



HUC 10190007 (Cache La Poudre) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.

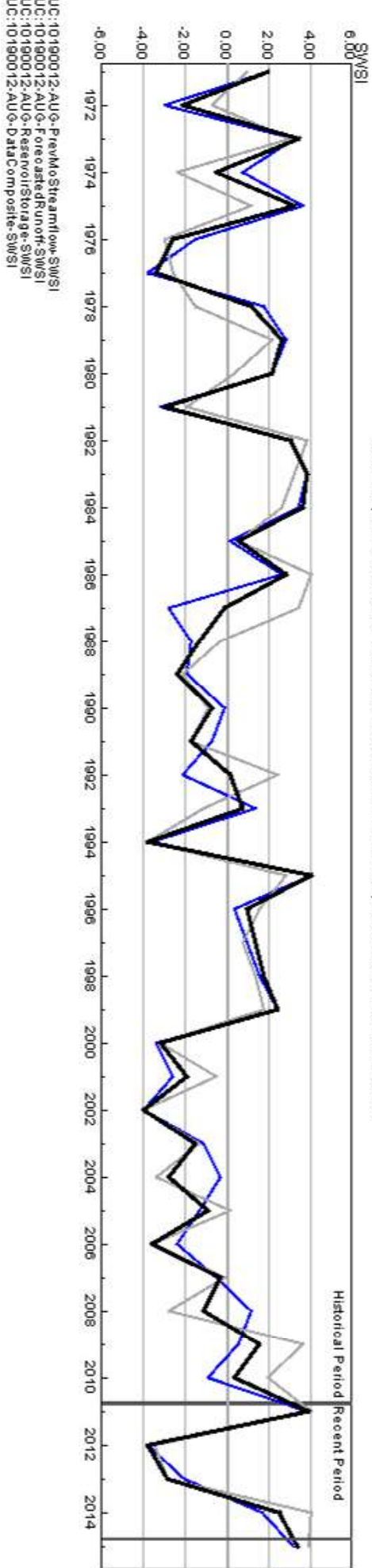


HUC 10190012 (Middle South Platte-Sterling) Surface Water Supply - AUG Monthly component volumes

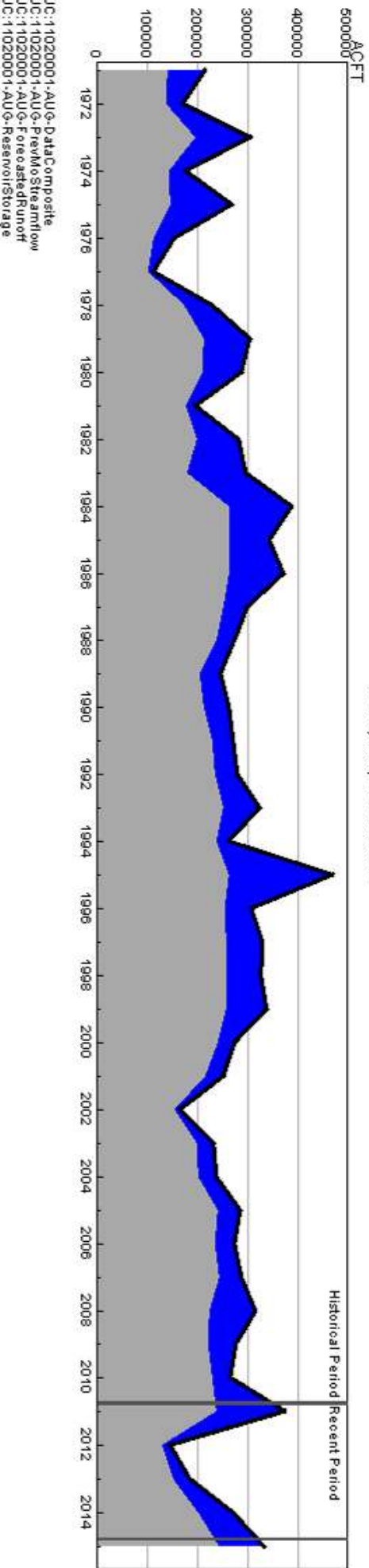


HUC 10190012 (Middle South Platte-Sterling) SWSI Values - AUG

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

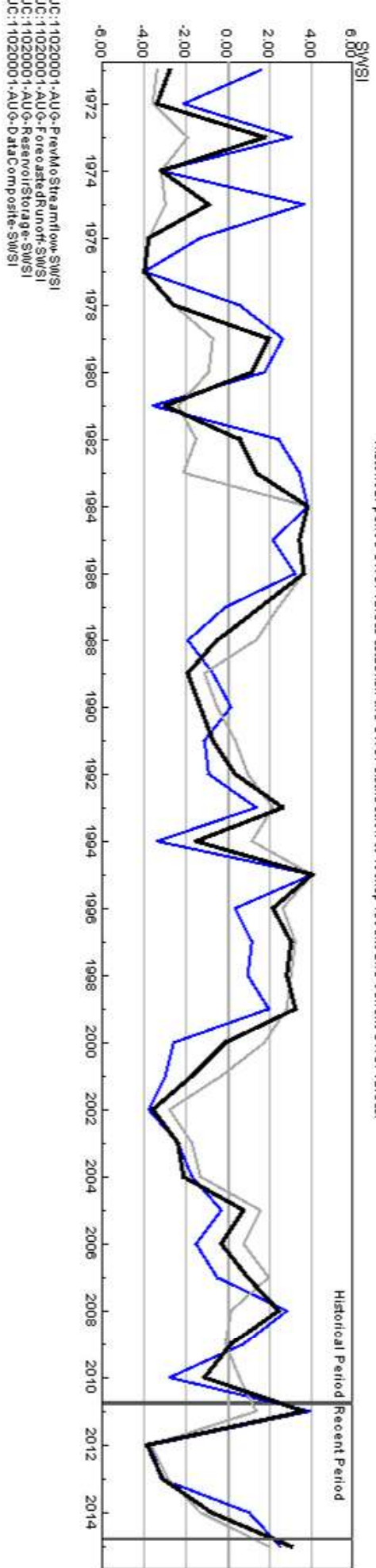


HUC 11020001 (Arkansas Headwaters) Surface Water Supply - AUG



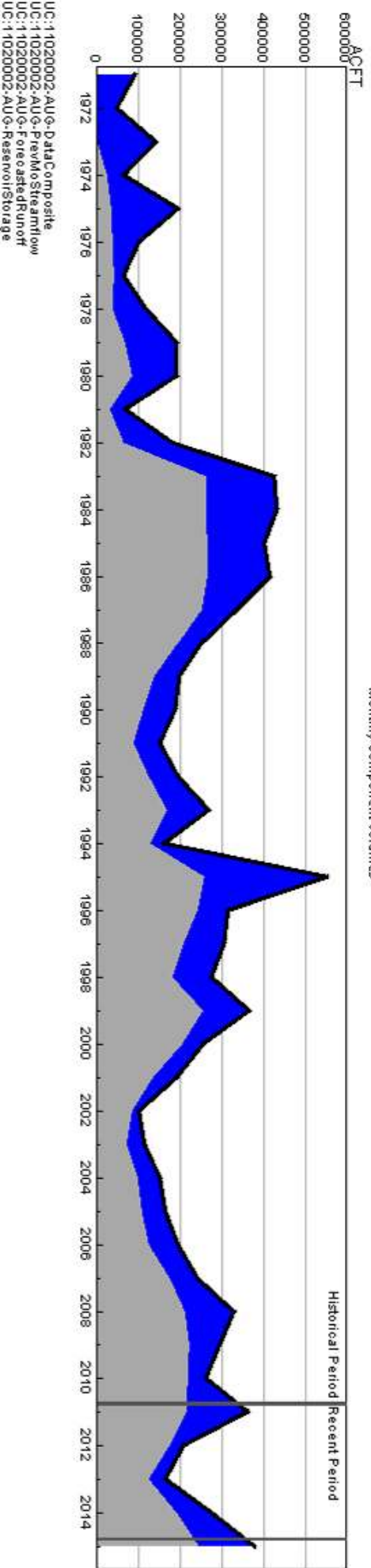
HUC 11020001 (Arkansas Headwaters) SWSI Values - AUG

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



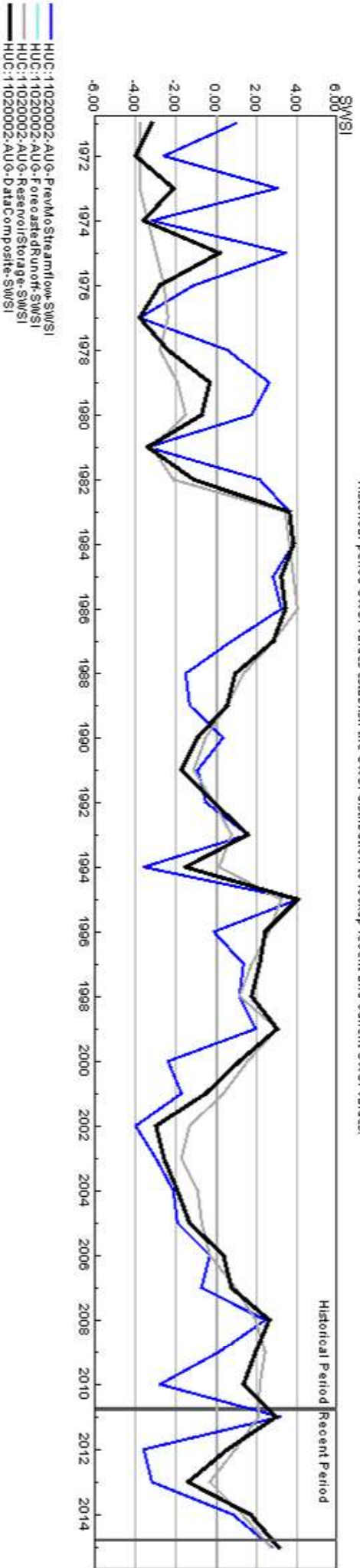
HUC 11020002 (Upper Arkansas) Surface Water Supply - AUG

Monthly component volumes

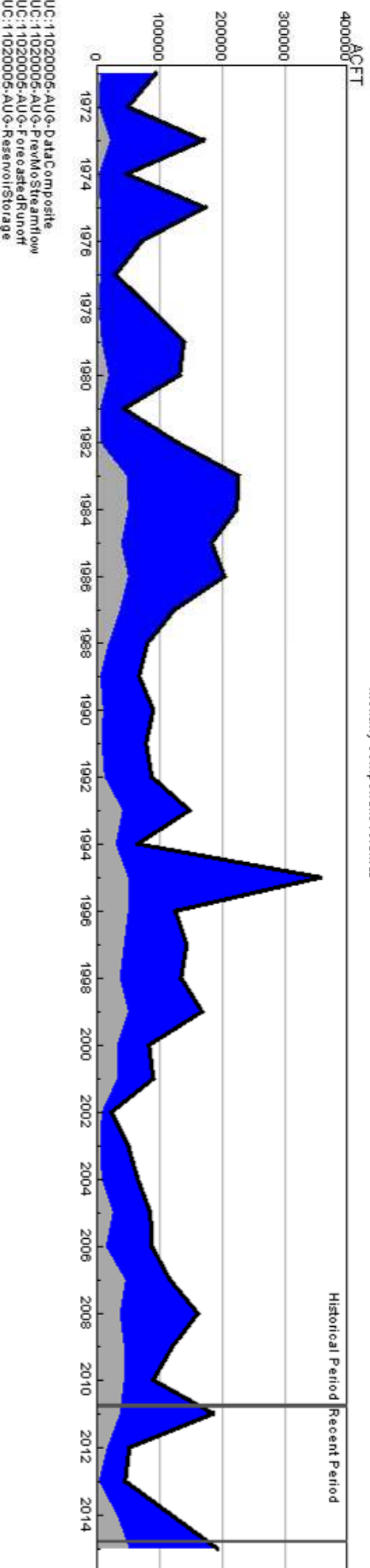


HUC 11020002 (Upper Arkansas) SWSI Values - AUG

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

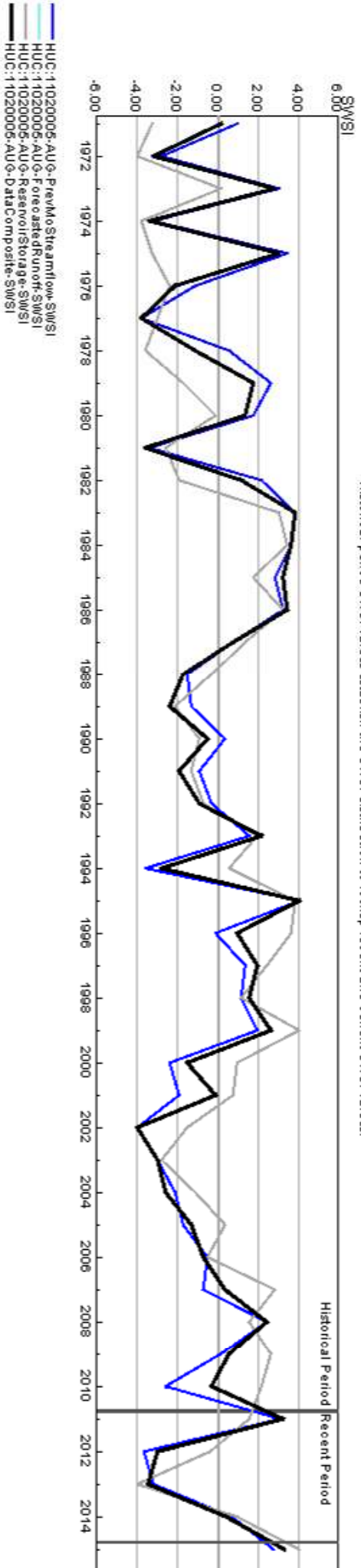


HUC 11020005 (Upper Arkansas-Lake Meredith) Surface Water Supply - AUG Monthly component volumes



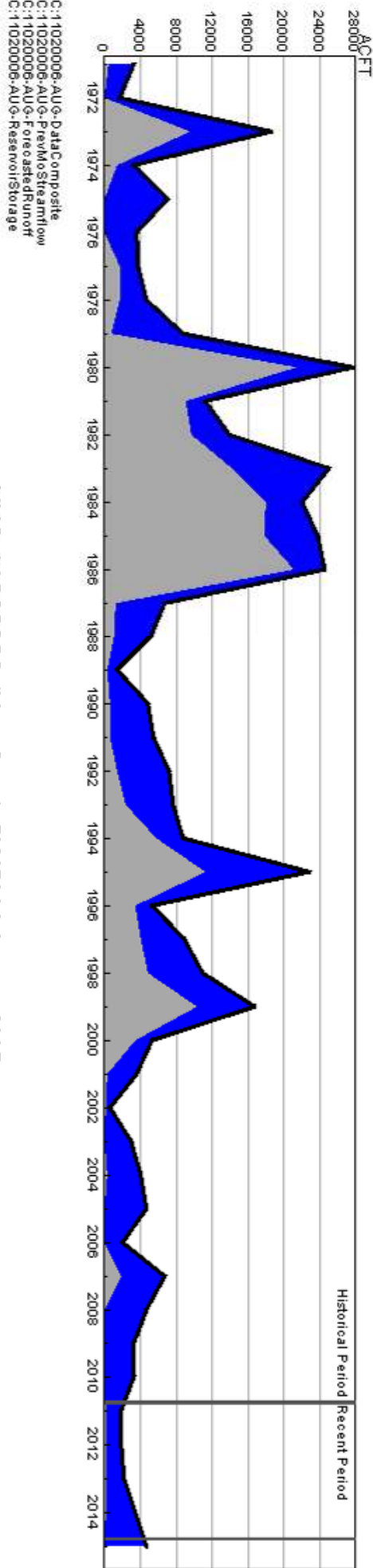
HUC 11020005 (Upper Arkansas-Lake Meredith) SWSI Values - AUG

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



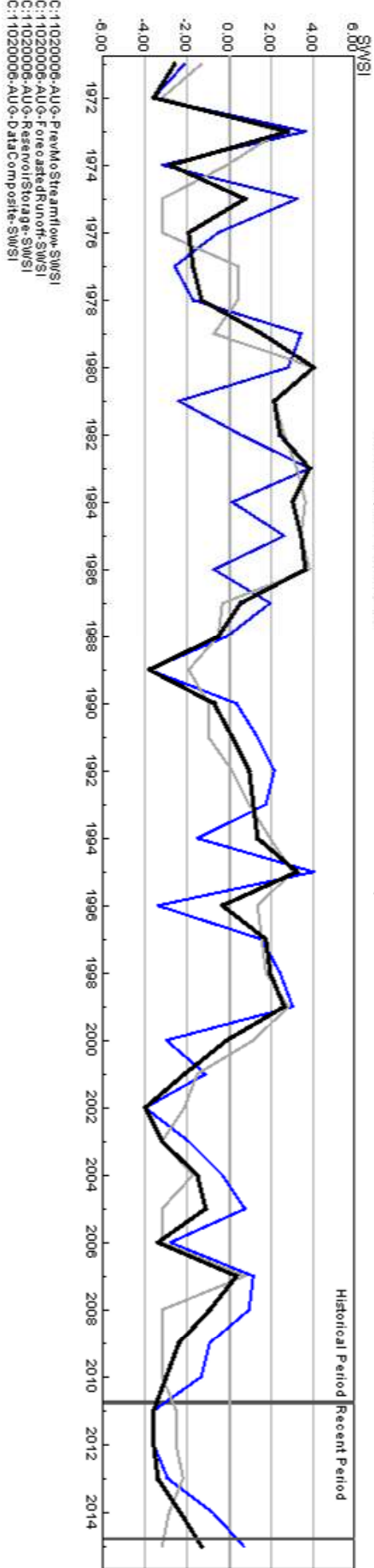
HUC 11020006 (Huerfano) Surface Water Supply - AUG

Monthly component volumes

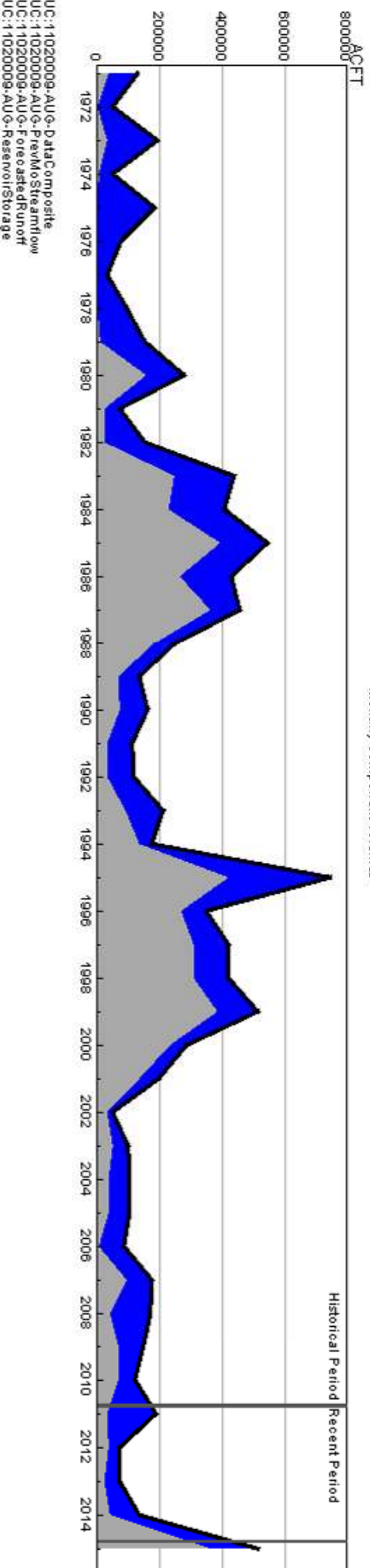


HUC 11020006 (Huerfano) SWSI Values - AUG

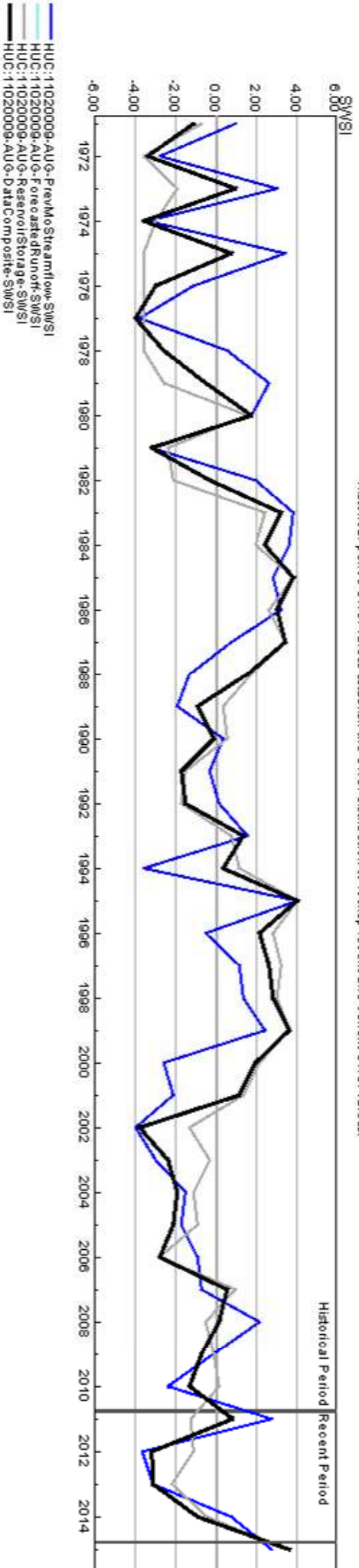
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 11020009 (Upper Arkansas-John Martin Reservoir) Surface Water Supply - AUG Monthly component volumes

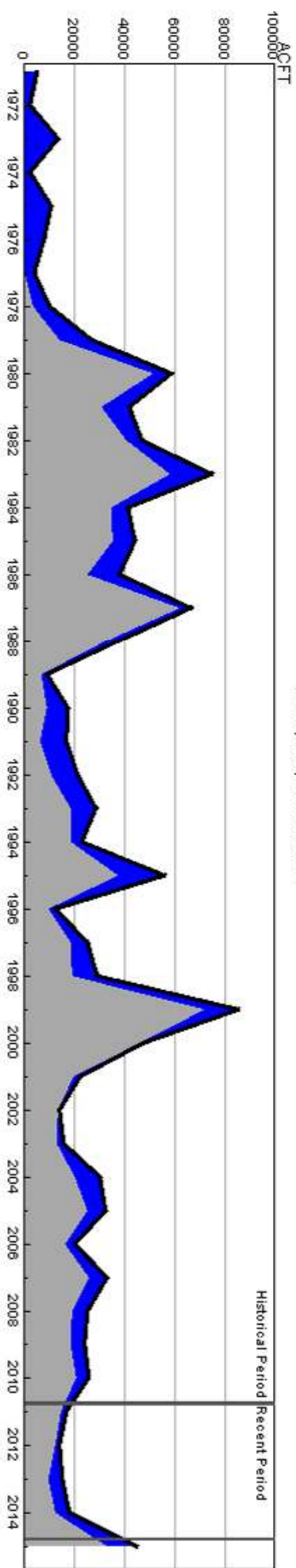


HUC 11020009 (Upper Arkansas-John Martin Reservoir) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 11020010 (Purgatorie) Surface Water Supply - AUG

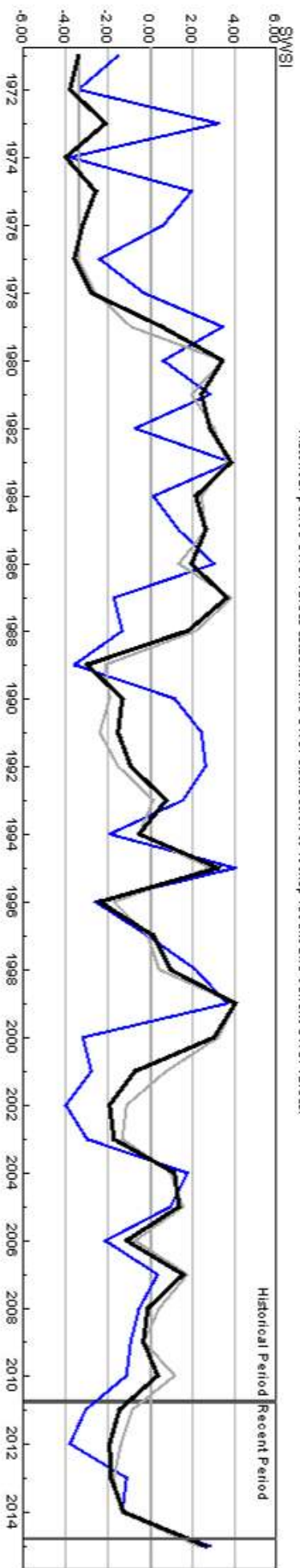
Monthly component volumes



HUC:11020010-AUG-DataComposite
HUC:11020010-AUG-PrevMoStreamflow
HUC:11020010-AUG-ForecastRunoff
HUC:11020010-AUG-ReservoirStorage

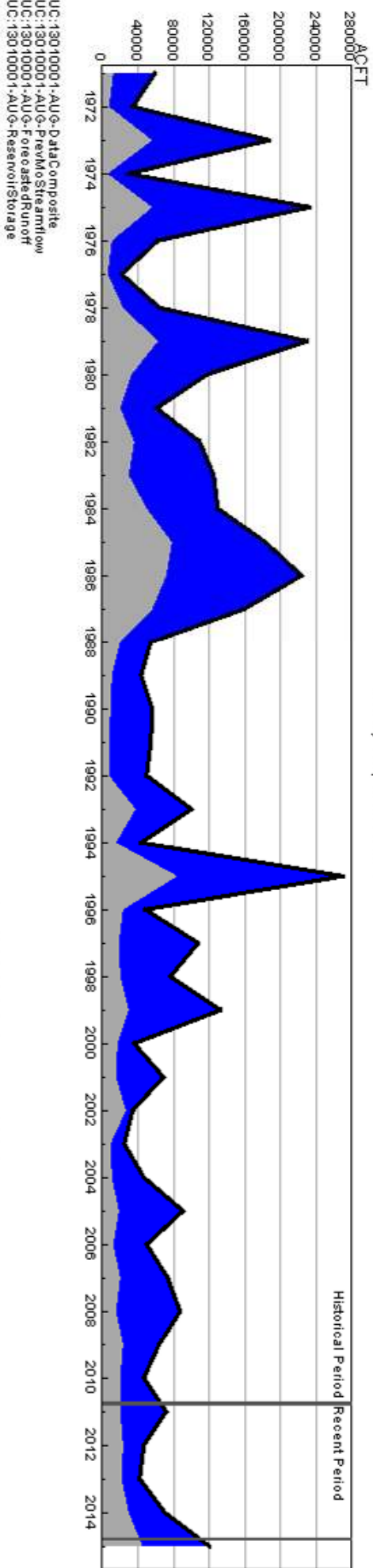
HUC 11020010 (Purgatorie) SWSI Values - AUG

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



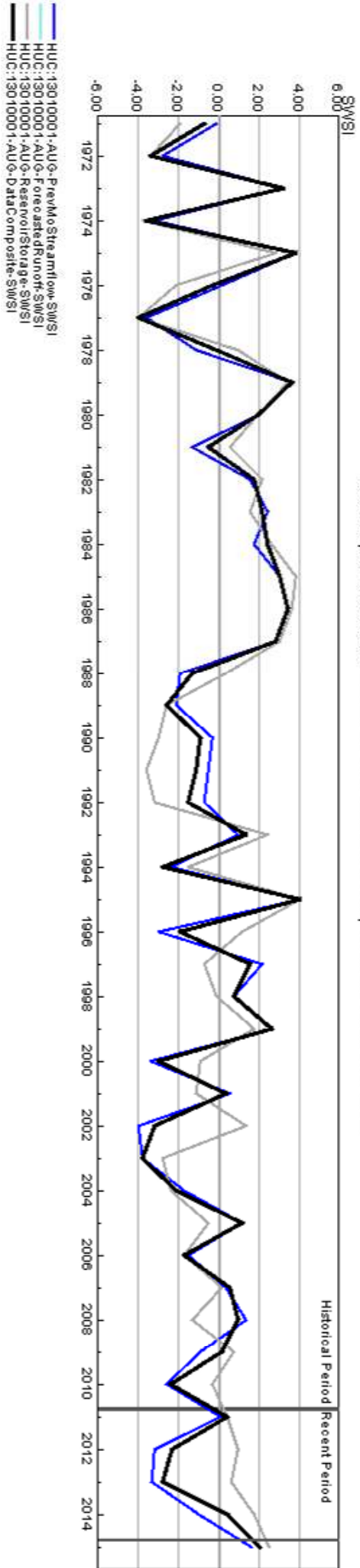
HUC:11020010-AUG-PrevMoStreamflow-SWSI
HUC:11020010-AUG-ForecastRunoff-SWSI
HUC:11020010-AUG-ReservoirStorage-SWSI
HUC:11020010-AUG-DataComposite-SWSI

HUC 13010001 (Rio Grande Headwaters) Surface Water Supply - AUG Monthly component volumes

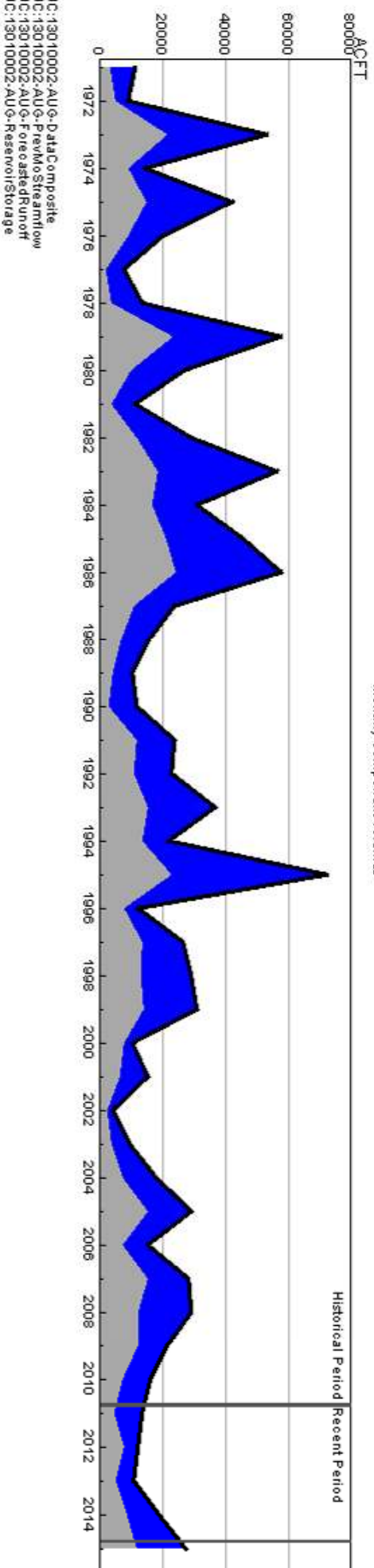


HUC 13010001 (Rio Grande Headwaters) SWSI Values - AUG

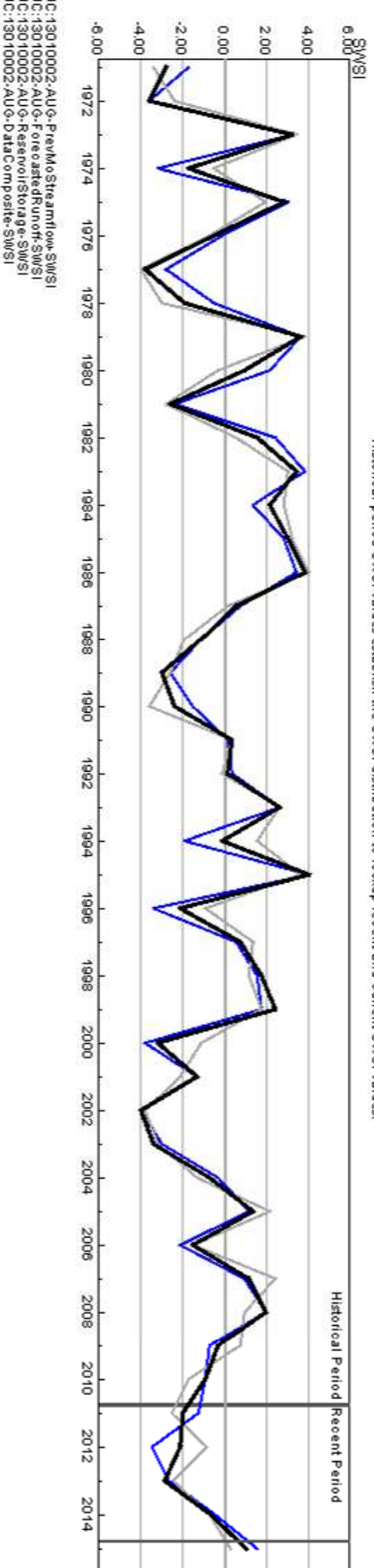
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 13010002 (Alamosa-Trinchera) Surface Water Supply - AUG Monthly component volumes

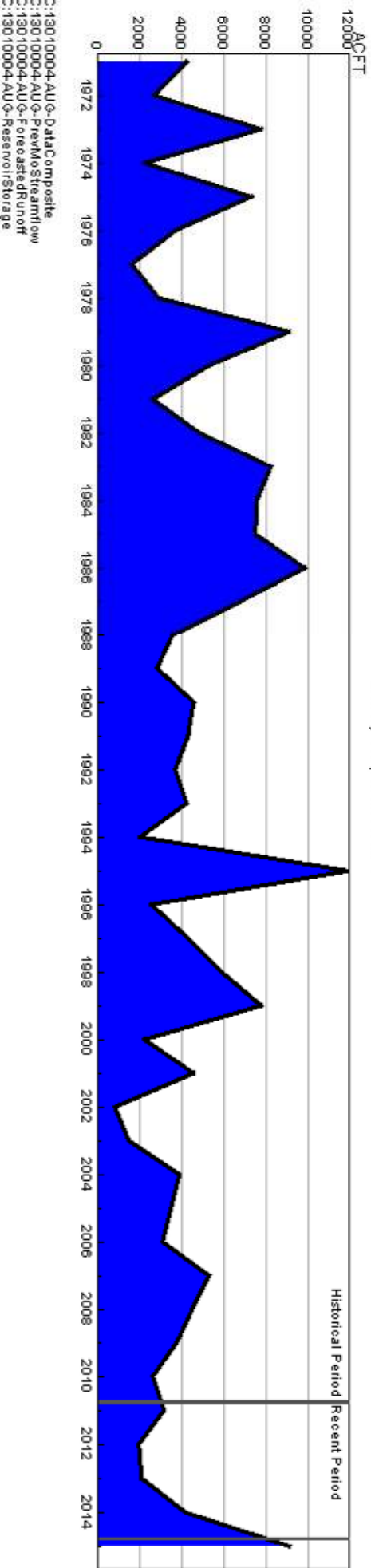


HUC 13010002 (Alamosa-Trinchera) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



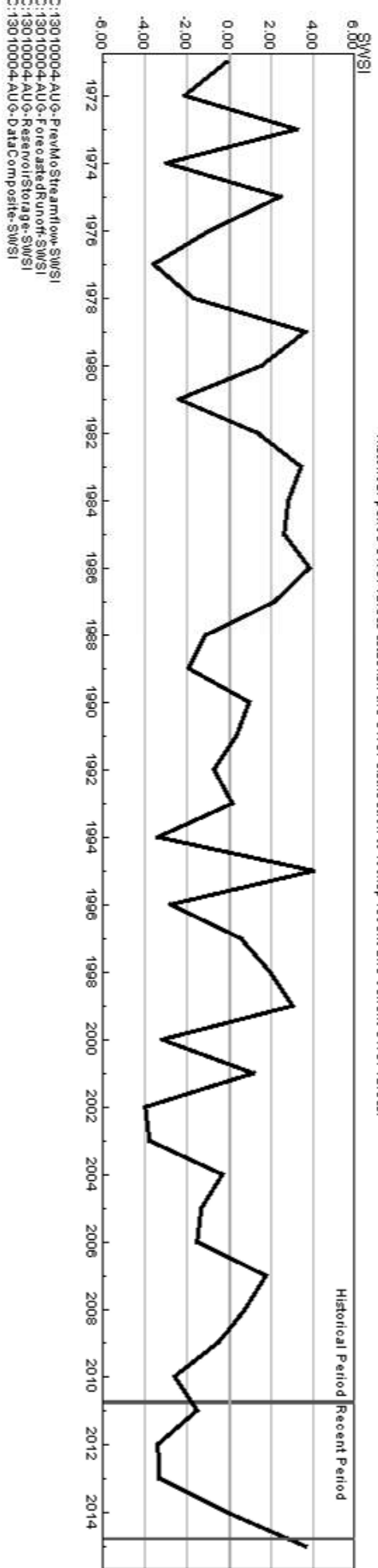
HUC 13010004 (Saguache) Surface Water Supply - AUG

Monthly component volumes

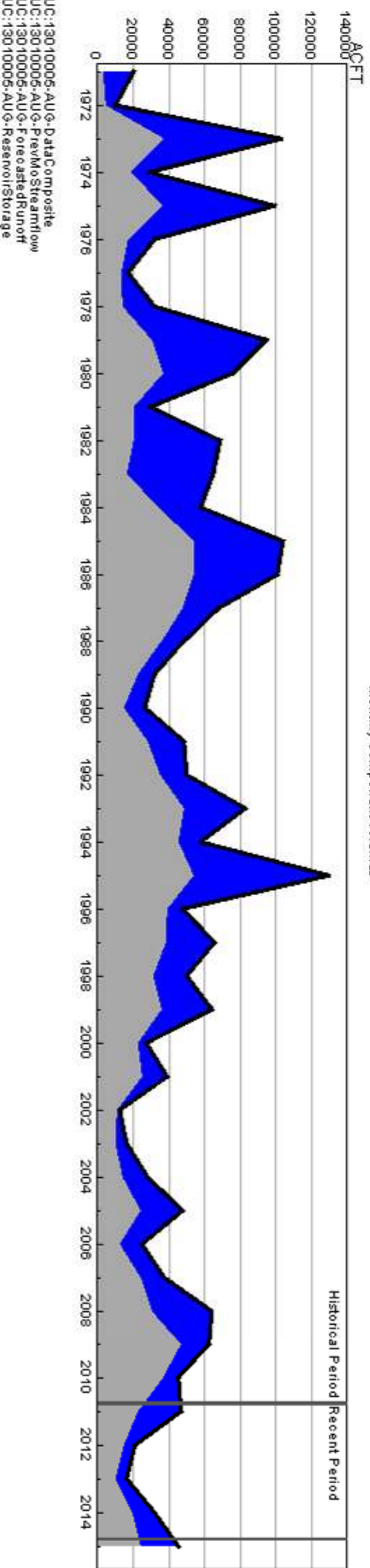


HUC 13010004 (Saguache) SWSI Values - AUG

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

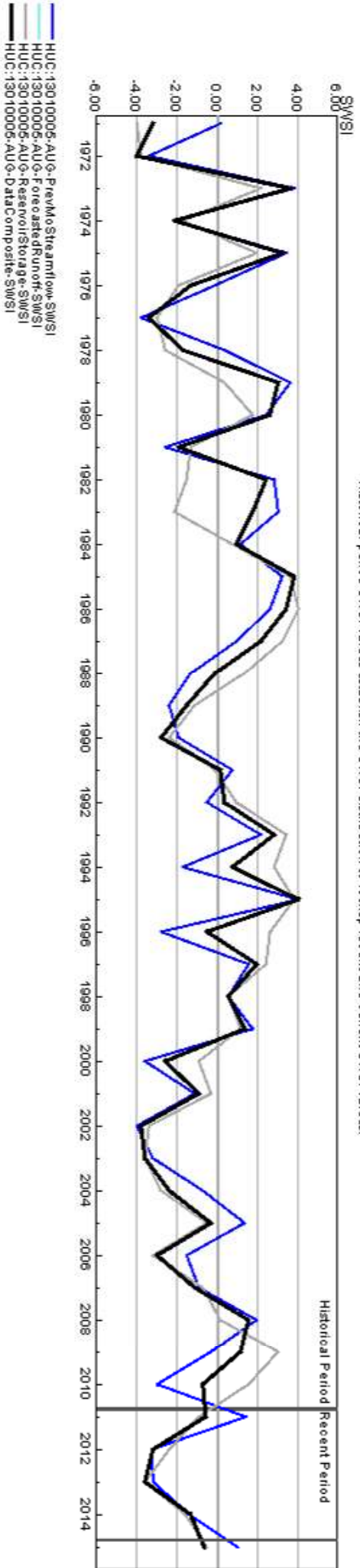


HUC 13010005 (Conejos) Surface Water Supply - AUG Monthly component volumes

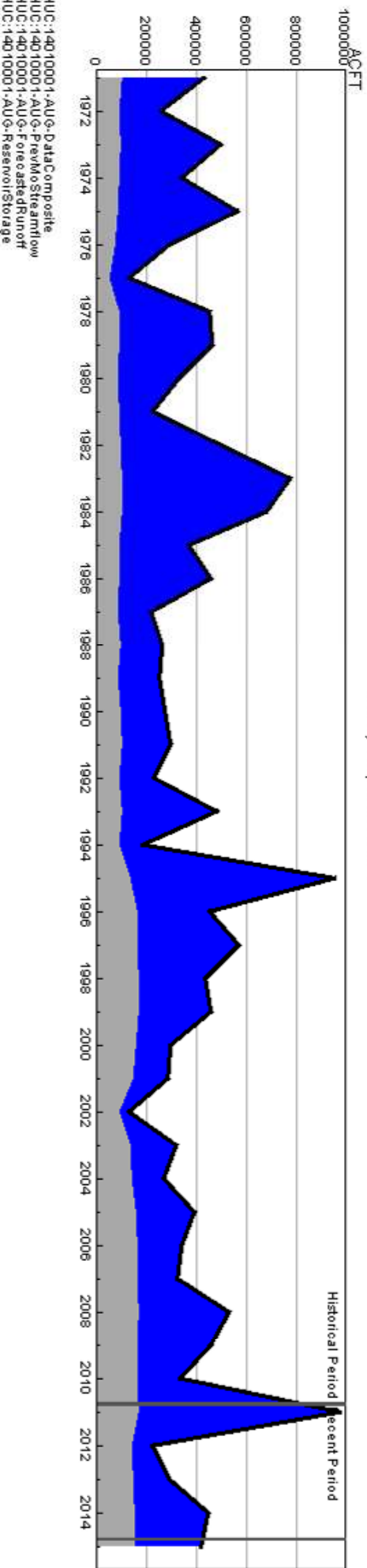


HUC 13010005 (Conejos) SWSI Values - AUG

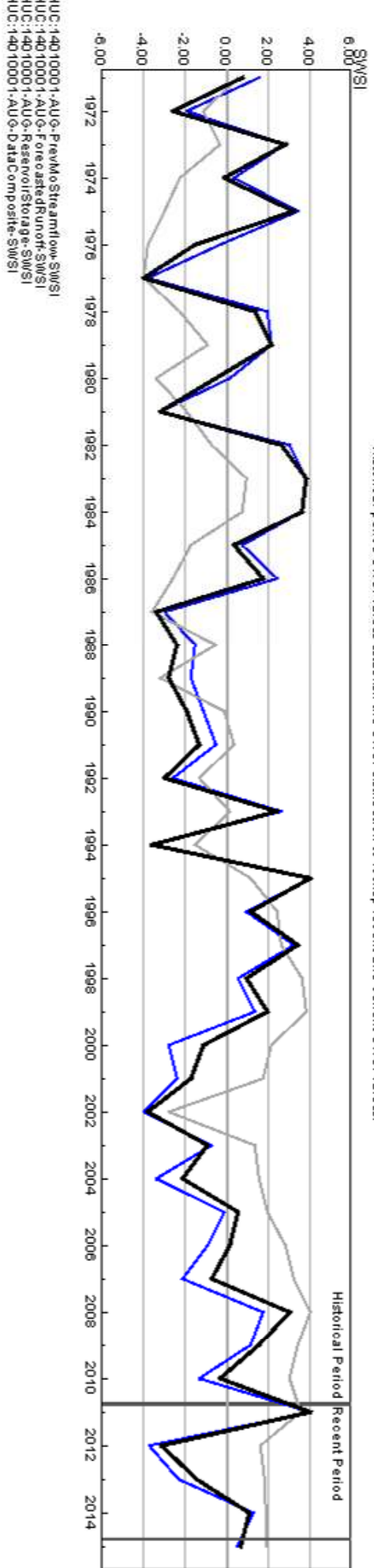
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14010001 (Colorado Headwaters) Surface Water Supply - AUG Monthly component volumes

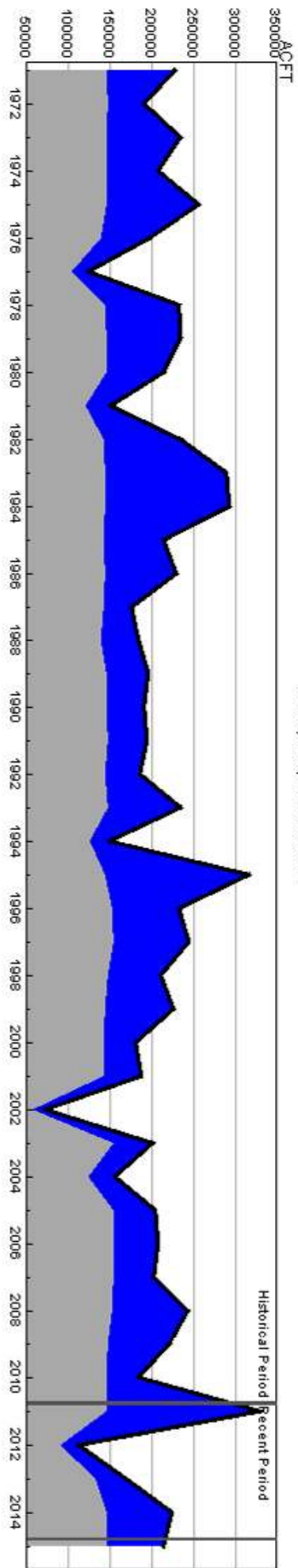


HUC 14010001 (Colorado Headwaters) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14010002 (Blue) Surface Water Supply - AUG

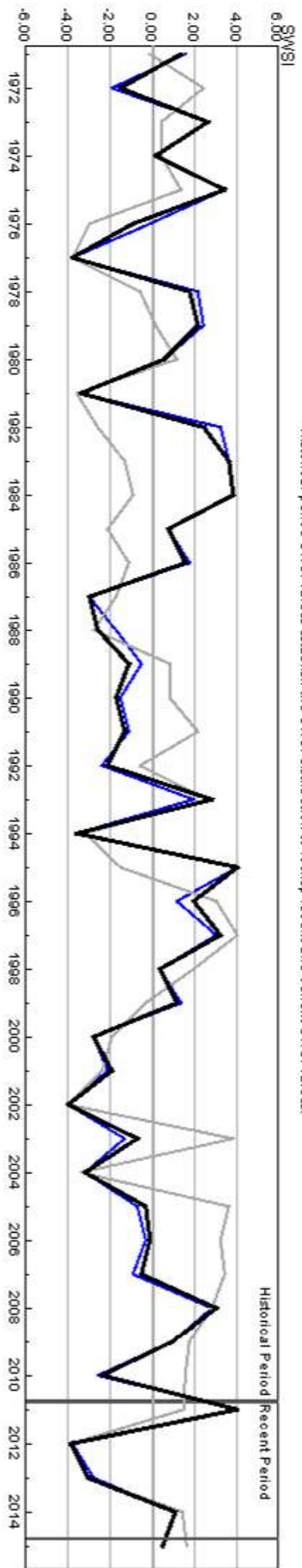
Monthly component volumes



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

HUC 14010002 (Blue) SWSI Values - AUG

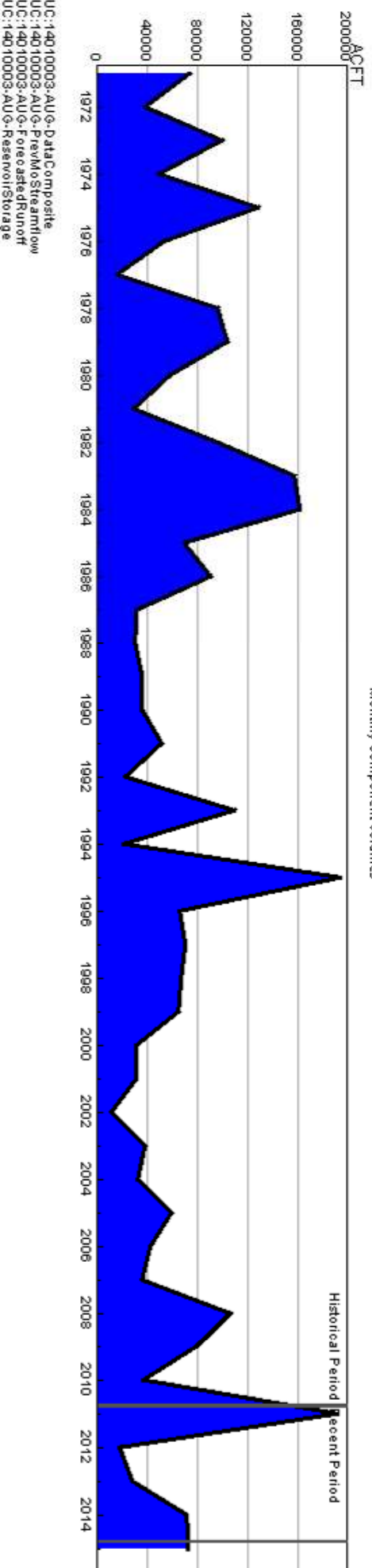
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

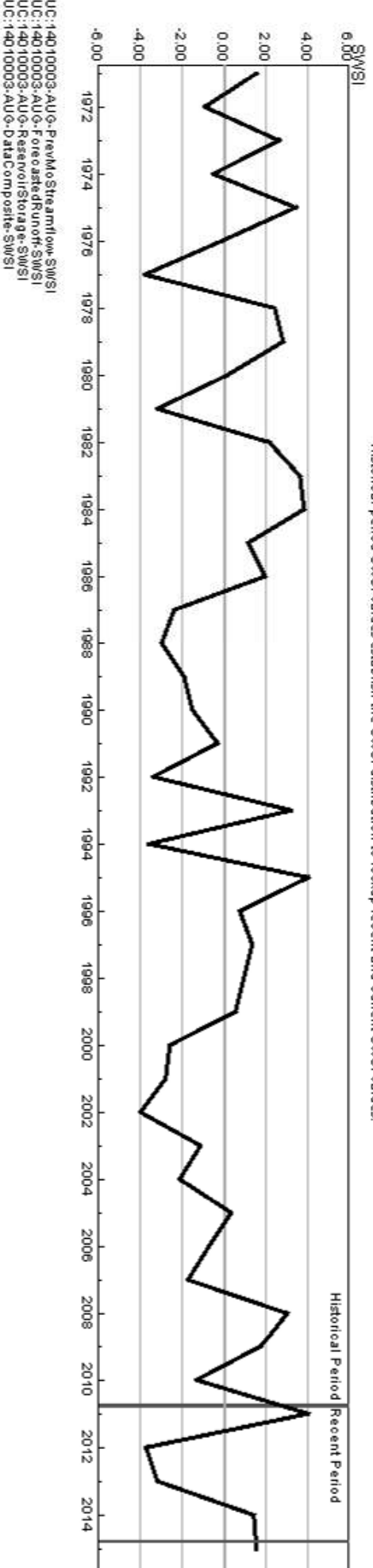
HUC 14010003 (Eagle) Surface Water Supply - AUG

Monthly component volumes



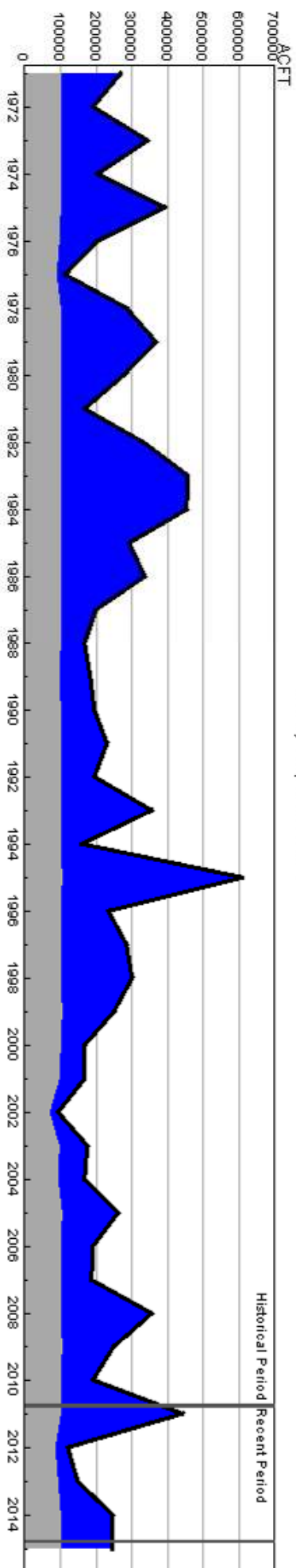
HUC 14010003 (Eagle) SWSI Values - AUG

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



HUC 14010004 (Roaring Fork) Surface Water Supply - AUG

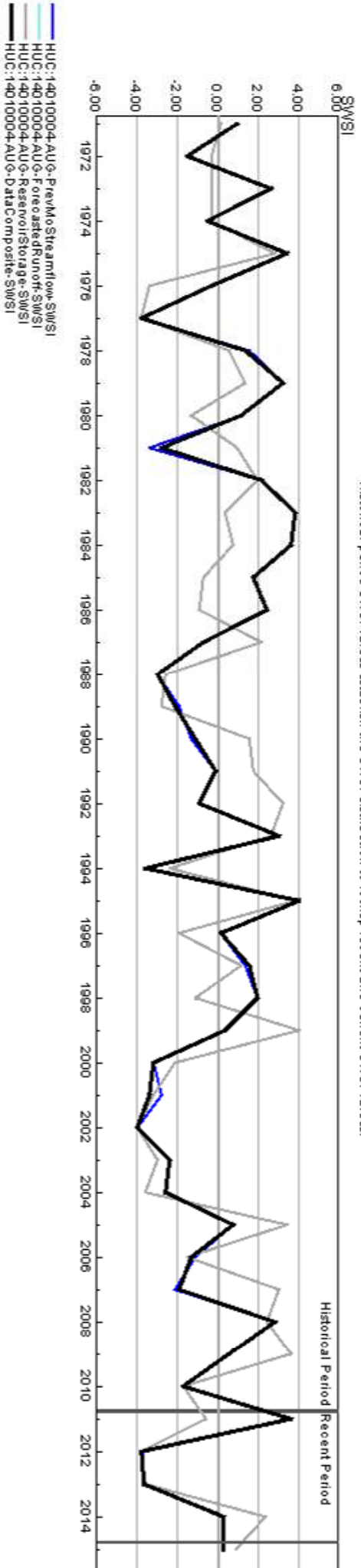
Monthly component volumes



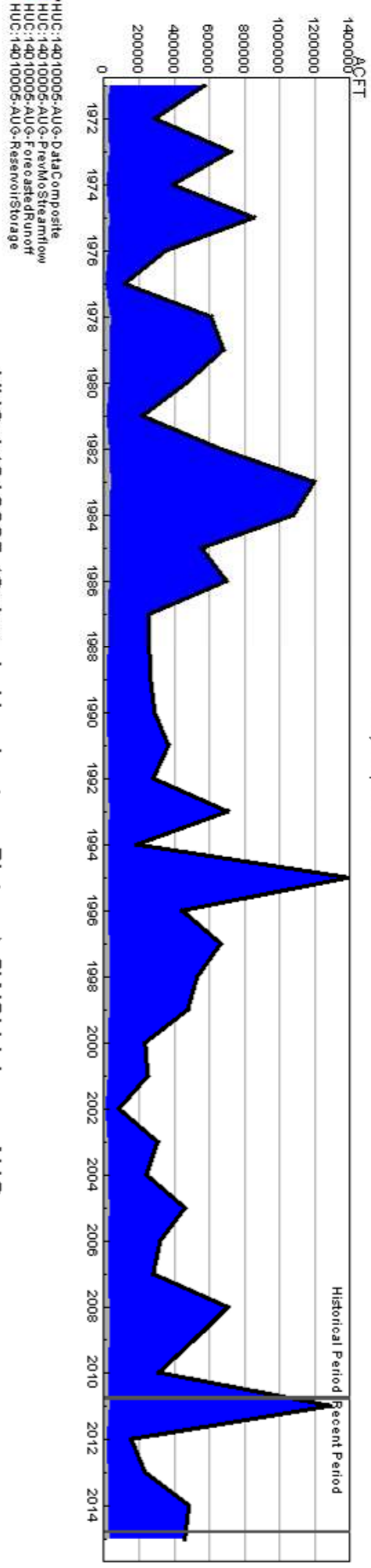
HUC:14010004AUG-DataComposite
HUC:14010004AUG-PreviousStreamflow
HUC:14010004AUG-ForecastedRunoff
HUC:14010004AUG-ReservoirStorage

HUC 14010004 (Roaring Fork) SWSI Values - AUG

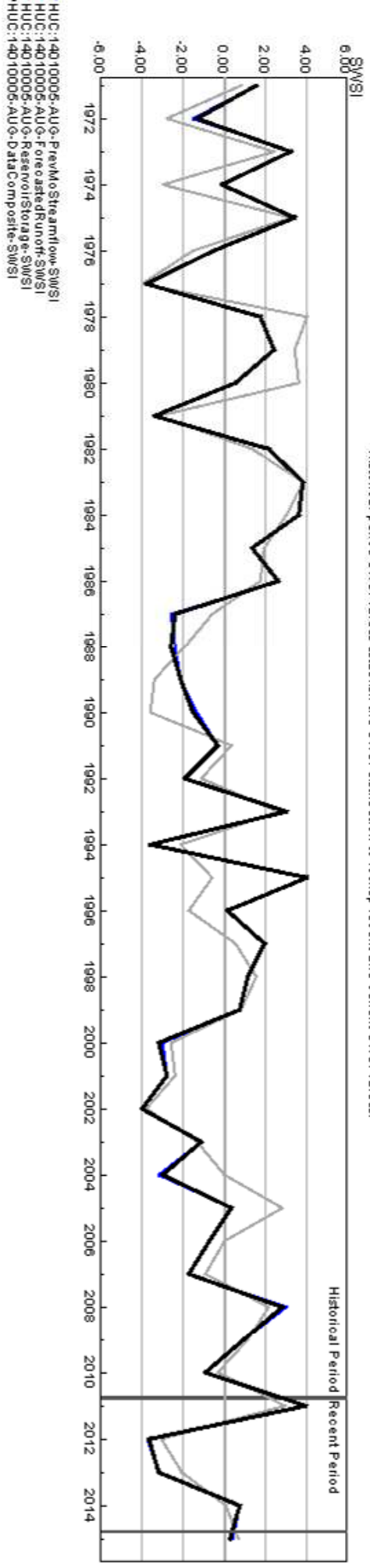
Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



HUC 14010005 (Colorado Headwaters-Plateau) Surface Water Supply - AUG Monthly component volumes

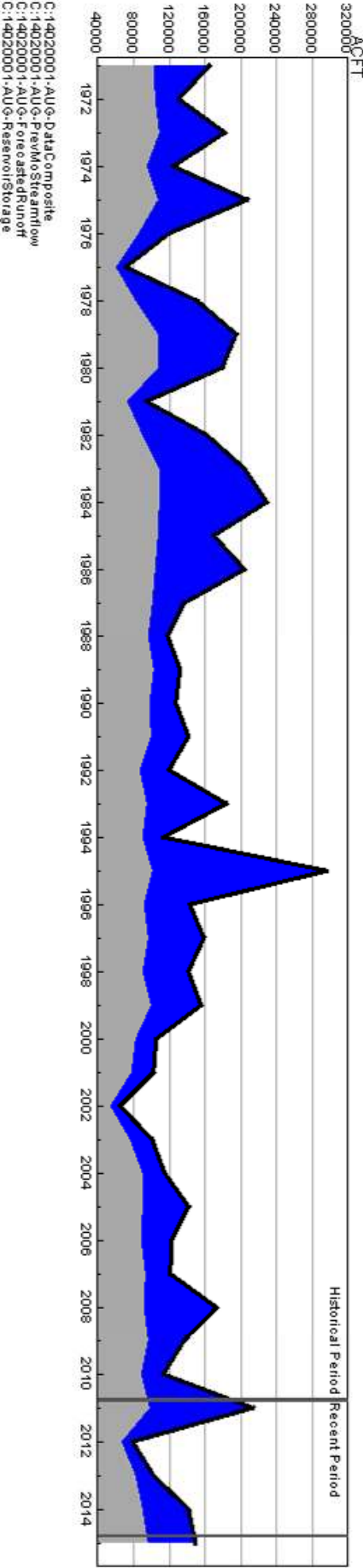


HUC 14010005 (Colorado Headwaters-Plateau) SWSI Values - AUG Historical period SWSI values establish the SWSI distribution to lookup recent and current SWSI values.



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

Monthly component volumes



HUC 14020001 (East-Taylor) SWSI Values - AUG

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

