

StateView Training

Example: Determining Available Flow for Instream Flow Right Request

Version: 4.02.00, 2011-07-15

Duration: Approximately 30 minutes

Level: Introduction

Colorado's Decision Support Systems

Developed by DWR and CWCB



This Presentation

- Explains how to use StateView to evaluate the question: “What information is available to help determine available flow for an instream flow request on Tabeguache Creek?”
- Is designed for self-paced training
- StateView requires that the HydroBase database is accessible

Selecting a Map at Startup

- Guest login is OK
- Select HydroBase version to use
- Select Division 4 - Gunnison
- HydroBase distributed on DVD is configured to look for GIS data in C:\CDSS

Select HydroBase

Login (1):

Password:

Connection:

Database Hostname:

Database Name:

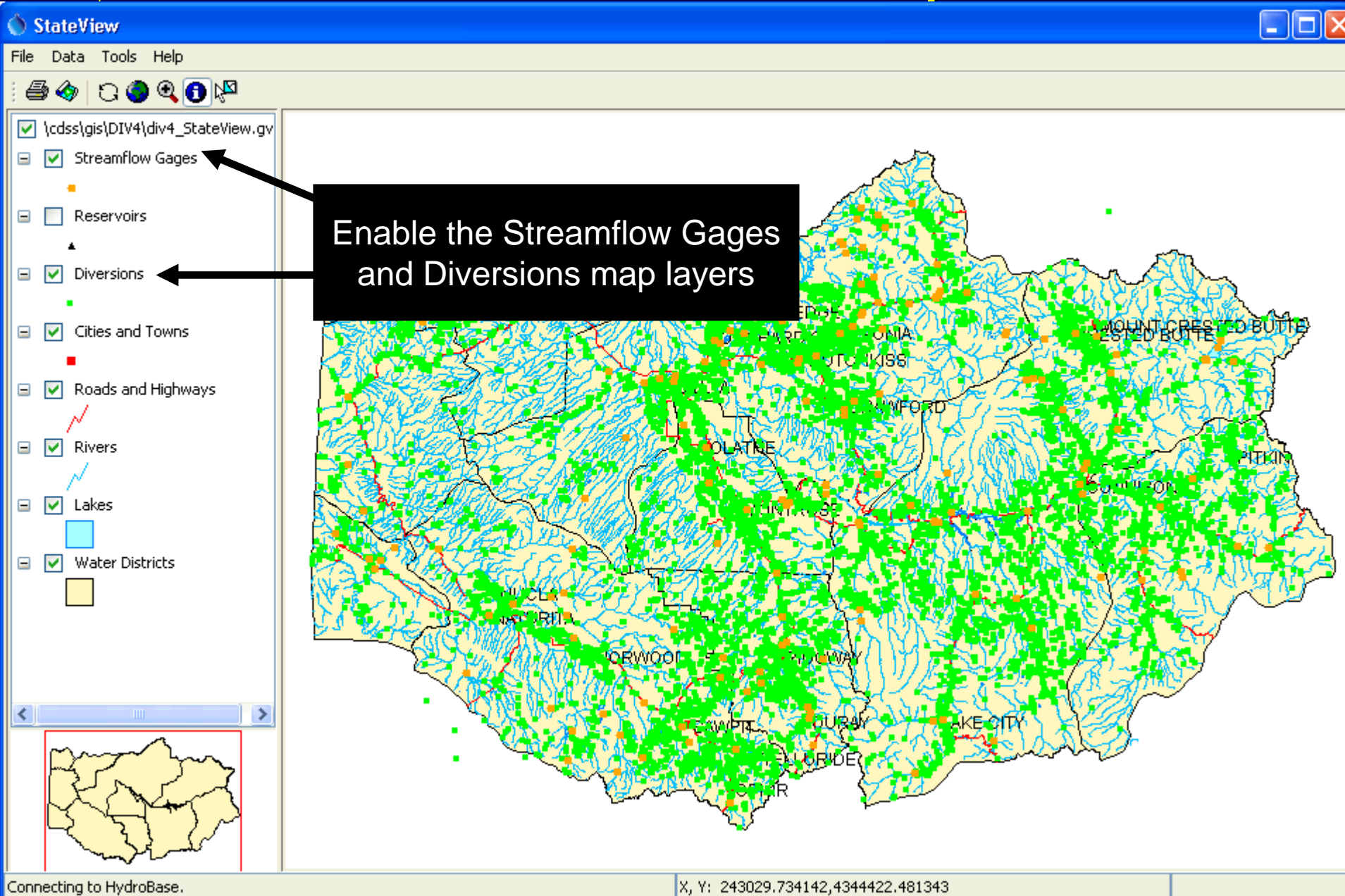
Water Division (2):

(1) Use "guest" for the login and password for general use.
State of Colorado users who update HydroBase have accounts.
(2) Select a water division to optimize map displays and menu choices.
The value may be reset if using a local database with only one division.

OK Cancel

Enter login information and select the HydroBase to open.

StateView Division 4 Map



StateView Structures View

StateView - Structure Data - Query



Query Options:

Div/Dist: Division 4: Gunnison River

Where: Water Source Contains Tabeguache

Where: Matches

Where: Matches

Get Data

Enter query options and press
"Get Data"

Structure Records: 172 records returned in 0.781 seconds

	DIV	WD	ID	STRUCTURE NAME	LOCATION	WATER SOURCE	STREAM MILE	OWNER	STRUCTURE TYPE	CURRENT IN USE
152	4	60	3786	STOCK POND NO 6	N 48N 15W 21 NW SW NW	TABEGUACHE CREEK	0.00	GO WEST INDUSTRI...	Reach	U
153	4	60	7392	STOCK WATER (E CAMP POND)	N 48N 15W 8 SW NW NE	TABEGUACHE CREEK		U S FOREST SERVI...	Reach	U
154	4	60	7393	STOCK WATER (STK PD N 153)	N 48N 15W 8 SW SE NE	TABEGUACHE CREEK		U S FOREST SERVI...	Reach	U
155	4	60	7425	T BONE SPR	N 49N 15W 32 NE NE NE	TABEGUACHE CREEK		U S FOREST SERVI...	Headgate	U
156	4	60	1122	T U SPRING AND TANK NO 1	N 47N 13W 4 SW SW NW	TABEGUACHE CREEK	0.00	RICHARDS, SAM & ...	Headgate	U
157	4	60	1123	T U SPRING AND TANK NO 2	N 47N 13W 4 SW NW NW	TABEGUACHE CREEK				
158	4	60	1124	T U SPRING AND TANK NO 3	N 47N 13W 4 SW SE SE	TABEGUACHE CREEK				
159	4	60	5055	TABEGUACHE WELL NO 1	N 47N 17W 1 NE NW	TABEGUACHE CREEK				
160	4	60	5056	TABEGUACHE WELL NO 2	N 47N 17W 1 NE SE	TABEGUACHE CREEK				
161	4	60	776	TEMPLETON DITCH	N 47N 16W 1 NW NW SE	TABEGUACHE CREEK				
162	4	60	778	THIRD PARK RES DITCH	N 47N 16W 1 SE NW SE	TABEGUACHE CREEK				
163	4	60	3610	THIRD PARK RES NO 1	N 47N 17W 12 NE NW	TABEGUACHE CREEK				
164	4	60	3611	THIRD PARK RES NO 2	N 47N 16W 12 NW NE SW	TABEGUACHE CREEK				
165	4	60	5058	THORALEN SPRING WELL	N 48N 16W 9 SW NE SW	TABEGUACHE CREEK				
166	4	60	779	TILTON DITCH	N 48N 16W 6 NE NE NW	TABEGUACHE CREEK				
167	4	60	7371	TROUGH RES	N 48N 14W 21 NE NW SE	TABEGUACHE CREEK				
168	4	60	7106	TWIN	N 48N 14W 17 NW NW SW	TABEGUACHE CREEK				
169	4	60	7424	UPPER POND (PAULS POND)	N 49N 15W 31 SE NE NE	TABEGUACHE CREEK				
170	4	60	789	URAVAN PIPELINE	N 47N 17W 2 NE SE NE	TABEGUACHE CREEK				
171	4	60	798	WEST CAMPBELL DITCH	N 48N 16W 22 NW NE NE	TABEGUACHE CREEK				
172	4	60	1432	WEST CAMPBELL SPRING	N 48N 16W 14 NW NW	TABEGUACHE CREEK	0.00	SHRIMP STATES BO...	Headgate	U

Select the first cell in a column, scroll to the bottom and use Shift to select the entire column. Then press "Select on Map".

Display View: Structure Summary

Select On Map

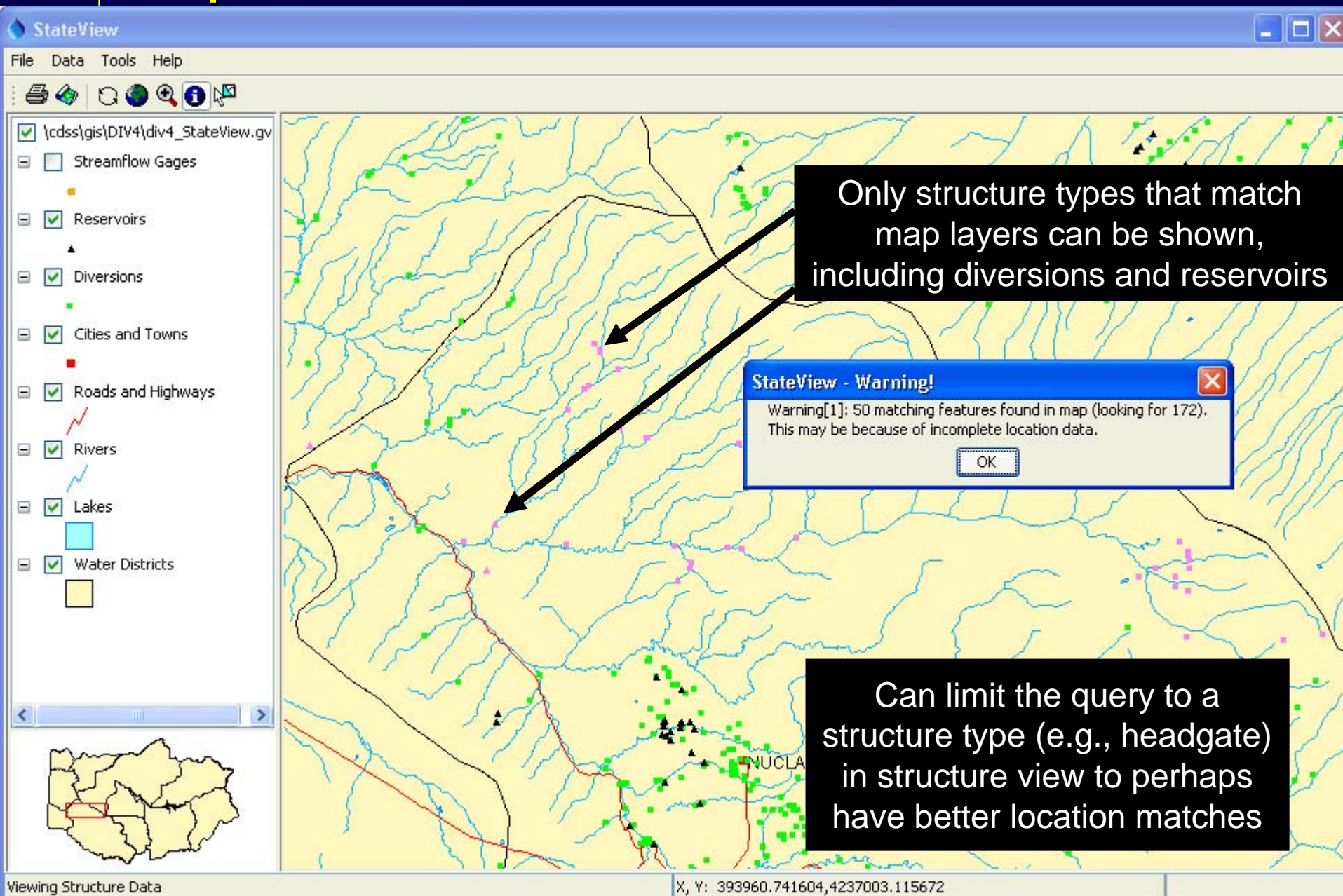
Print

Export

Close

Map is zoomed to selected structures. Ready.

Map Zoomed in to Selected Structures



StateView Structures View (2)

StateView - Structure Data - Query

Query Options:

Div/Dist: Division 4: Gunnison River

Where: Water Source Contains Tabeguache

Where: Structure Type Matches Headgate

Where: Matches

Get Data

Enter query options and press "Get Data"

Structure Records: 55 records returned in 0.218 seconds

	DIV	WD	ID	STRUCTURE NAME	LOCATION	WATER SOURCE	STREAM MILE	OWNER	STRUCTURE TYPE	CURRENT IN USE
35	4	60	7308	MONSIE SPG	N 47N 13W 11 SW SW SW	TABEGUACHE CREEK		U S FOREST SERVI...	Headgate	U
36	4	60	1591	RAINMAKER SPRING	N 47N 12W 18 NE SW NW	TABEGUACHE CREEK	0.00		Headgate	U
37	4	60	1094	REVERSE B CROSS SP & TK1	N 47N 13W 6 SE NE NE	TABEGUACHE CREEK	0.00	RICHARDS, SAM & ...	Headgate	U
38	4	60	7309	ROCK SPRING	N 47N 13W 13 NE NE NE	TABEGUACHE CREEK		U S FOREST SERVI...	Headgate	U
39	4	60	759	SKEES DITCH	N 47N 15W 5 NW NW SW	TABEGUACHE CREEK	0.00	CURTIS	Headgate	U
40	4	60	1105	SKEES RANCH SPRING NO 1	N 47N 15W 6 NE NW SE	TABEGUACHE CREEK	0.00	CURTIS, ALFRED	Headgate	U
41	4	60	767	SPRING CREEK DITCH NO 1	N 48N 16W 4 NE SW NW	TABEGUACHE CREEK	0.00	WEIMER RANCHES ...	Headgate	H
42	4	60	1692	SPRING CREEK DITCH NO 2	N 48N 16W 4 NE SW NW	TABEGUACHE CREEK	0.00		Headgate	A
43	4	60	1693	SPRING CREEK DITCH NO 3	N 48N 16W 4 SW NE NE	TABEGUACHE CREEK	0.00		Headgate	A
44	4	60	7253	STINKING SPRING	N 48N 15W 33 SE NE	TABEGUACHE CREEK		UNITED STATES BU...	Headgate	U
45	4	60	7425	T BONE SPR	N 49N 15W 32 NE NE NE	TABEGUACHE CREEK			Headgate	U
46	4	60	1122	T U SPRING AND TANK NO 1	N 47N 13W 4 SW SW NW	TABEGUACHE CREEK			Headgate	U
47	4	60	1123	T U SPRING AND TANK NO 2	N 47N 13W 4 SW NW NW	TABEGUACHE CREEK			Headgate	U
48	4	60	1124	T U SPRING AND TANK NO 3	N 47N 13W 4 SW SE SE	TABEGUACHE CREEK			Headgate	U
49	4	60	776	TEMPLETON DITCH	N 47N 16W 1 NW NW SE	TABEGUACHE CREEK			Headgate	U
50	4	60	778	THIRD PARK RES DITCH	N 47N 16W 1 SE NW SE	TABEGUACHE CREEK			Headgate	U
51	4	60	5058	THORMALEN SPRING WELL	N 48N 16W 9 SW NE SW	TABEGUACHE CREEK			Headgate	U
52	4	60	779	TILTON DITCH	N 48N 16W 6 NE NE NW	TABEGUACHE CREEK			Headgate	U
53	4	60	789	URAVAN PIPELINE	N 47N 17W 2 NE SE NE	TABEGUACHE CREEK	0.00	UMETCO	Headgate	I
54	4	60	798	WEST CAMPBELL DITCH	N 48N 16W 22 NW NE NE	TABEGUACHE CREEK	0.00	GARVEY BROS LA...	Headgate	A
55	4	60	1432	WEST CAMPBELL SPRING	N 48N 16W 14 NW NW	TABEGUACHE CREEK	0.00	UNITED STATES BU...	Headgate	U

Select a ditch of interest and then display the structure summary and diversion coding views

Display View: Structure Summary

Select On Map Print Export Close

Finished generating view list.

Structure Diversion Records

- Daily data for senior ditch can provide record of minimum flows when no gage is available
- Diversion classes indicate non-native flow (e.g. reservoir release, transbasin)
- If senior ditch routinely takes less than decree, ask water commissioner for reason
- See also infrequent diversion data in structure summary

StateView - Structure Data - Diversion Coding - 6000776 (TEMPLETON DITCH) - Selec...

Structure Name: TEMPLETON DITCH DIV: 4 WD: 60 ID: 776

Monthly Data (Count, Data Type/SFUT, Period, Available):

- 1) DivTotal, 1974-2009, 432/432
- 2) DivClass-S:1 F: U:1 T: G:, 1974-2009, 432/432

Daily Data (Count, Data Type/SFUT, Period, Available):

- 3) DivTotal, 1974-2009, 4013/13149
- 4) DivClass-S:1 F: U:1 T: G:, 1974-2009, 4013/13149

Output Period: 1973-11-01 to 2009-10-31 Set Period Original Period

Graph Summary Table Diversion Report Close

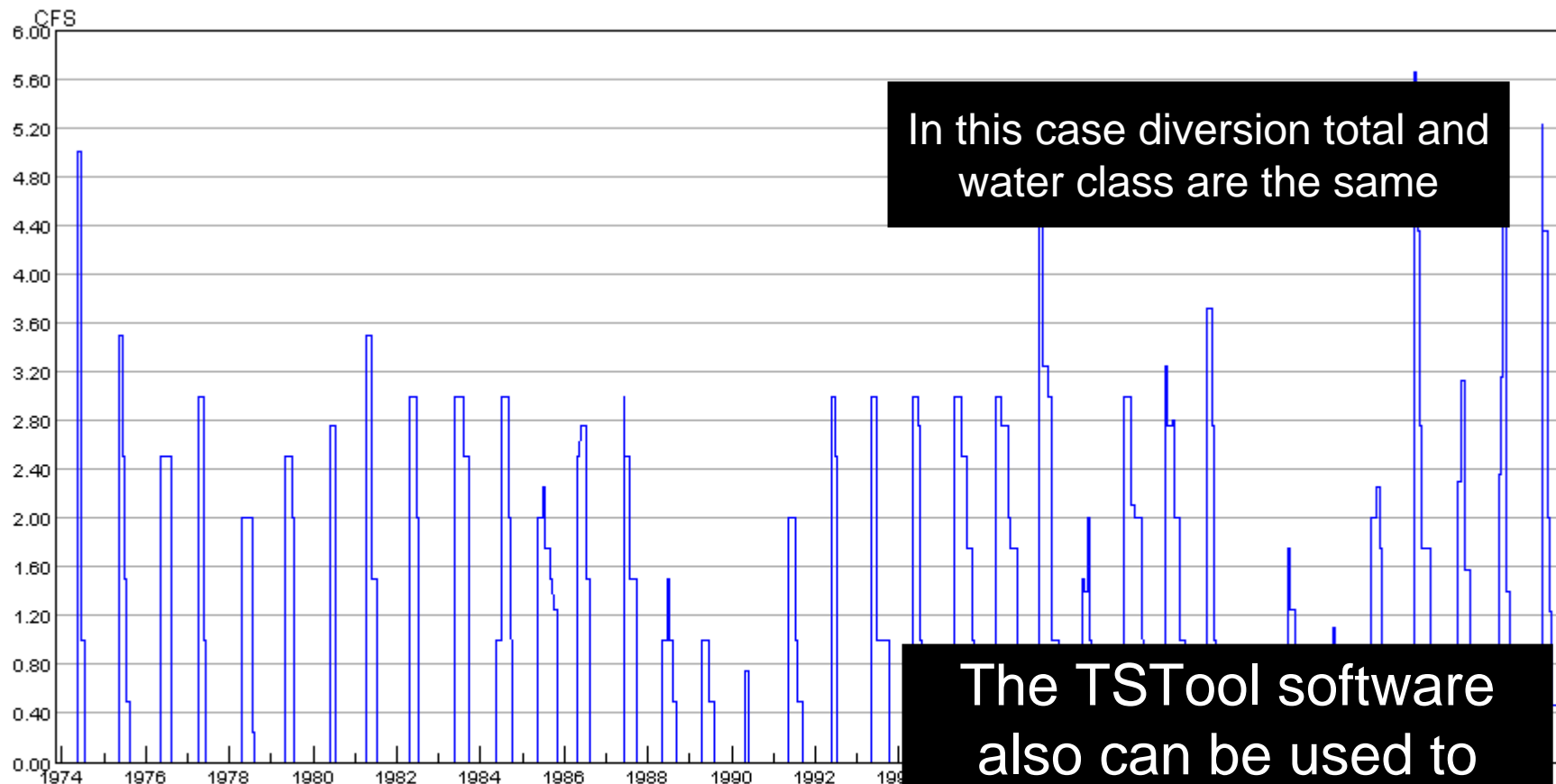
Select data of interest and then press "Graph" or other views

Diversion Records Graph

StateView - 6000776 Time Series - Graph



6000776 Time Series



The TSTool software
also can be used to
view diversion records

— TEMPLETON DITCH, 6000776.DWR.DivTotal.Day (1973-11-01 to 2009-10-31)
— TEMPLETON DITCH, 6000776.DWR.DivClass-S:1 F: U:1 T: G:..Day (1973-11-01 to 2009-10-31)

Visible Period (white):



ZoomOut

Summary

Table

Print

Save

Close

Zoom Mode

X: 1983-08-30, Y: 5.17

StateView Stations View

StateView - Station Data - Query

Query Options:

Div/Dist: Division 4: Gunnison River

Data Type: Stream - Streamflow

Time Step: Day

Where: Station Name Contains Tabeguache

Where: Matches

Get Data

Specify query information and press "Get Data"

Stations for selected data type (1 station returned in 0.047 seconds):

	DIV	WD	ID	ABBREVIATION	STATION NAME	DATA SOURCE	DATA TYPE	TIME STEP	START	END
1	4	60	09176500	TABNUCCO	TABEGUACHE CREEK NEAR NUCLA, CO.	USGS	Streamflow	Day	1946	1953

Select a station of interest and select a view for the time series

Time Series Graph Time Series Summary Time Series Table

Select On Map Print Export Close

Select one or more stations and then press Time Series buttons or select other choices.

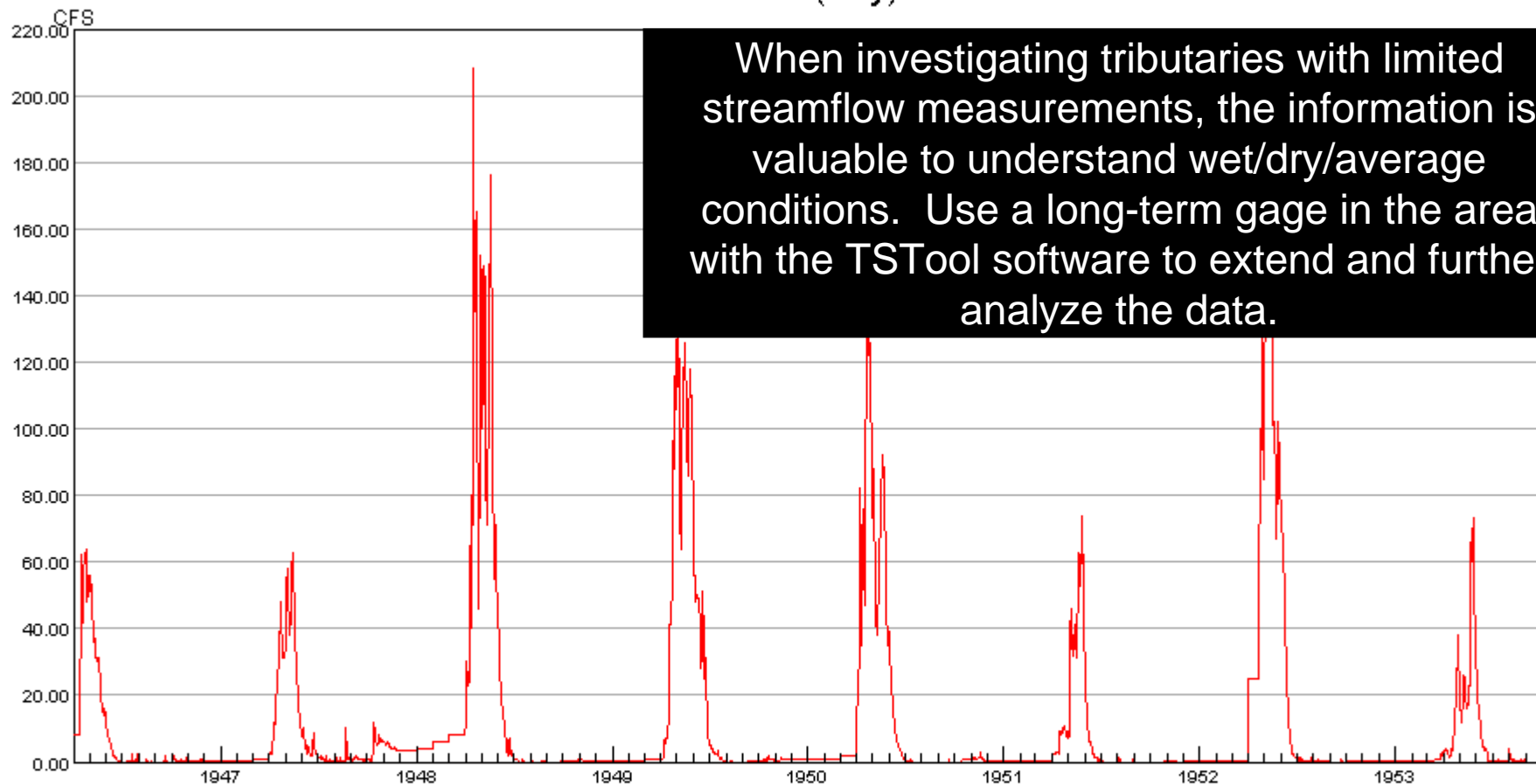
Historical Streamflow Graph

StateView - Streamflow (Day) - Graph



Streamflow (Day)

When investigating tributaries with limited streamflow measurements, the information is valuable to understand wet/dry/average conditions. Use a long-term gage in the area with the TSTool software to extend and further analyze the data.



— TABEGUACHE CREEK NEAR NUCLA, CO., 09176500.USGS.Streamflow.Day (1946-04-01 to 1953-09-30)

Visible Period (white):



ZoomOut

Summary

Table

Print

Save

Close

Zoom Mode

X: 1947-03-29, Y: 164.87

Summary

- StateView provides direct access to HydroBase data...if you have HydroBase installed
- Structure, station, map, and time series data can be accessed from integrated views
- Even though data are available, the user must understand its meaning and use, and be able to deal with data limitations

More Information

Help...View Documentation displays the StateView documentation. Help...View Training Materials displays other self-paced presentations.

See the Water Commissioner Manual and HydroBase documentation

Numerous task memoranda, reports, software documentation, and other documents provide technical information and are available on the CDSS web site:

<http://cdss.state.co.us>