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Yampa/White/Green Basin

Yampa/White/Green Basin Water Management Issues

The Yampa/White/Green Basin will face several key points and challenges with respect to water management issues and needs over the next 30 years. The following provides an overview of some of the points and challenges that have been identified:

- Agriculture, tourism, and recreation are vital components of this basin's economy.
- Industrial uses, especially power production, are a major water use. Future energy development opportunities exist but are less certain.

- While rapidly growing in some areas (Yampa River/Steamboat area), the basin is not developing as rapidly as other portions of the state. This has led to concern that the basin will not get a "fair share" of water use afforded to Colorado under the Colorado River Compact.

- The Recovery Implementation Program is designed to address the recovery needs of the Colorado River and allowing for the future use of Colorado River water in compliance with Interstate Compacts, Treaties, and applicable federal and state law "the Law of the Colorado River".



Fishhook Lake (photo courtesy of Bill Green)



Yampa/White/Green Basin Overview

The Yampa/White/Green Basin covers roughly 10,500 square miles in northwest Colorado and south-central Wyoming. The largest cities or towns in the basin are Steamboat Springs (population 10,402) and Craig (population 9,185).

The Yampa/White/Green Basin is defined in part by the Continental Divide on the east. The elevations in the basin range from 12,200 feet (Mount Zirkel) in the Sierra Madre range to about 5,100 feet at the confluence of the Yampa and Green Rivers at Echo Park within Dinosaur National Monument. The basin contains diverse landforms including steep mountain slopes, high plateaus, rolling hills, incised sandstone canyons, and broad alluvial valleys and floodplains.

Large portions of the basin are federally owned lands. Livestock grazing, and recreation are the predominant land uses in the basin. Steamboat Springs is a destination ski resort and is likely to experience continued population growth. Near the towns of Craig, Hayden, Steamboat Springs, Yampa, and Meeker, much of the land is dedicated to agricultural use. The mountains are densely covered by forest. The valley and plateaus are mostly covered by shrubland and are also dotted with forest.

Water Conservation District

Colorado River

Water Conservancy Districts

Great Northern Upper Yampa
Juniper Yellow Jacket
Rio Blanco

Compact Facts

Colorado River Compact of 1922

Allocates 7.5 million AF of consumptive use annually to (1) the Upper Colorado River Basin (those parts of Arizona, Colorado, New Mexico, Utah, and Wyoming above Lee Ferry, Arizona), and (2) the Lower Colorado River Basin (those parts of Arizona, California, and Nevada below Lee Ferry, Arizona). This Compact requires the Upper Colorado River Basin to deliver an average of 75 million AF to the Lower Basin during any consecutive 10-year period. The Lower Basin is allowed an additional 1.0 million AF of consumptive use from the Colorado River system.

Rio Grande, Colorado, and Tijuana Treaty of 1944 between the United States and Mexico
Guarantees delivery of 1.5 million AF of Colorado River water per year to Mexico. If there is not adequate surplus water to satisfy the obligation, the Upper and Lower Basins are to equally share the burden of reducing uses to make up any deficiencies.

Upper Colorado River Basin Compact of 1948

Allocates the 7.5 million AF apportionment of consumptive uses available to the Upper Basin as follows:

Arizona	50,000 AF/year
Colorado	51.75%
Utah	23%
Wyoming	14%
New Mexico	11.25%

Additionally, the State of Colorado may not deplete the flow in the Yampa River below an aggregate of 5 million AF over any 10-year period.

Depending upon the interpretation of the Compacts, other laws, and the amount of water in the river, Colorado's right to the consumptive use of water under the Compacts may range from 3.079 million AF to 3.855 million AF per year. Colorado currently consumes an average of 2.3 million AF per year with facilities in place capable of using up to 2.6 million AF. Colorado's apportionment has not been divided among the various subbasins within the state. The Yampa and La Plata River Basins have specific delivery obligations under the Compacts. The allocation and administration of Compact waters within Colorado remains open to discussion but ultimately will be subject to rules and regulations for administration by the State Engineer.



Trapper Lake (photos courtesy of Barbara Goodrich)

Major Storage Projects

Reservoir	Normal Storage (AF)
Stagetoch Reservoir	33,275
Willow Creek Reservoir (Steamboat Lake)	23,064
Taylor Draw Reservoir	13,800
Elkhead Creek Reservoir	13,500
Yamcolo Reservoir	9,580
Big Beaver Reservoir (Lake Avery)	7,658
Siltwater Reservoir	6,088

Source: Colorado Division of Water Resources Office of Dam Safety Database

Major Imports into the Basin

None

Major Exports from the Basin

Name	Average Annual Diversions (AF)
1 Siltwater Ditch	4,280

Source: Divison 6 1998 Annual Report 10-year averages

Yampa/White/Green Basin Growth

The Yampa/White/Green Basin is comprised of all or part of three counties. Changes in population from 2000 to 2030, including percent annual growth rate on a county level, are shown in the table here. During that time, the population in the basin is expected to grow by 22,100 people, or 56 percent.

Yampa/White/Green Basin Population Projections

Subbasin Designation	2000 Population	2030 Population	Increase in Population 2000 to 2030	Percent Change 2000 to 2030	Percent Annual Growth Rate
Moffat	13,200	18,200	5,000	38	1.1
Rio Blanco	6,000	8,400	2,400	40	1.1
Routt	20,100	34,800	14,700	73	1.8
TOTAL	39,300	61,400	22,100	56	1.5

Yampa/White/Green Basin Water Demands

The Yampa/White/Green Basin is projected to increase in municipal and industrial (M&I) and self-supplied industrial (SSI) water demand by 22,300 acre-feet (AF) by 2030. M&I is defined as all of the water use of a typical municipal system, including residential, commercial, industrial, irrigation, and firefighting. Large industrial water users that have their own water supplies or lease raw water from others are described as SSI water users. M&I and SSI water demand forecasts for the Yampa/White/Green Basin are shown in the table above.

Yampa/White/Green Basin Demand Projections

Subbasin Designation	2000 Gross Demand (AF)	2030 Gross Demand (AF)	Projected Conservation Savings (AF)	Increase in Gross Demand (AF)	Identified Gross Demand Shortfall (AF)
Moffat	16,300	26,900	300	10,300	-
Rio Blanco	2,000	2,700	100	600	-
Routt	11,100	23,000	500	11,400	-
TOTAL	29,400	52,600	900	22,300	-

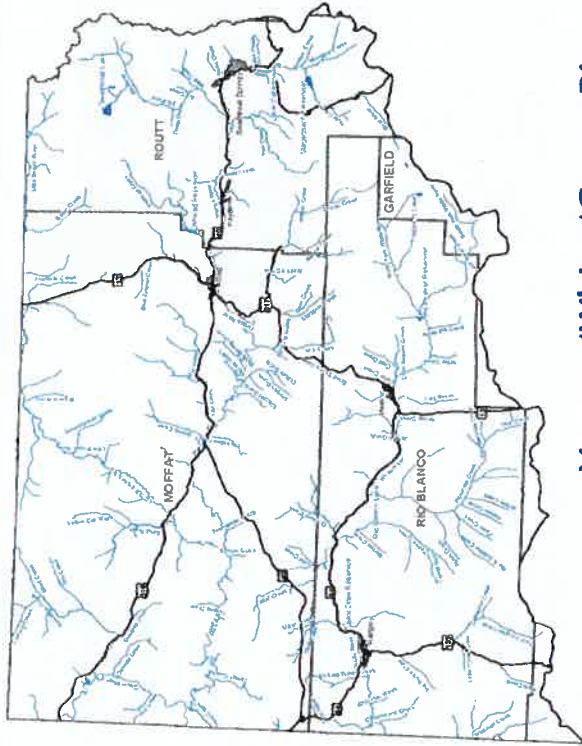
Wet and Dry Periods

Every year, there is at least one 100-year flood somewhere in the state. Colorado's total flood losses to date have been documented to be \$4.9 billion. The Yampa/White/Green Basin's most recent flood event was May 30-June 5, 1997. The estimated total historic flood damages for this basin have been \$5.5 million to date.

The 2000 and 2030 gross demands are presented in the table along with the projected conservation savings. Conservation practices include ordinances and standards that improve the overall efficiency of water use, such as installation of low water-use plumbing fixtures. As the table indicates, the Yampa/White/Green Basin will need an additional 22,300 AF to meet the increased demands of M&I water use. The majority of the demand is expected to be met through existing supplies and water rights and through the implementation of various projects and processes.



Yampa River (photo courtesy of Colorado State Parks)

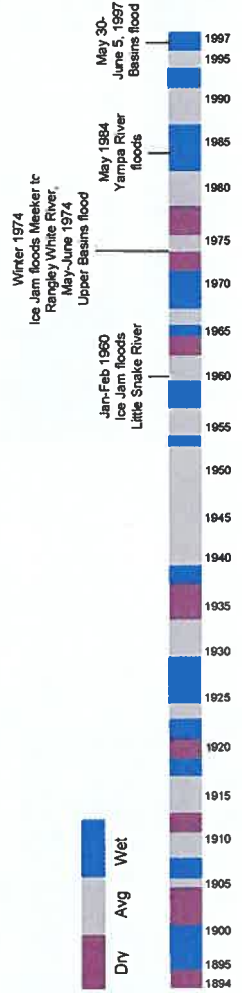


Yampa/White/Green River Basin



Surface Water Diversions in Acre-feet by Use

Source: Colorado Division of Water Resources, Cumulative Yearly Statistics of the Colorado Division of Water Resources, 1999-2004



Source: Colorado Water Conservation Board and Division 6 Staff



Elk Creek (photo courtesy of Barbara Goodrich)

CONDITIONAL WATER RIGHTS FOR OIL SHALE DEVELOPMENT

Table B-1.
Colorado River Basin – Conditional Rights

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
1	Kobe Canal	Colorado River	Ditch	48.3	0	6/30/1936	Colorado River Water Cons Dist
2	Mt Logan Canal	Roan Creek	Ditch	75	0	6/30/1936	Colorado River Water Cons Dist
3	Mt Logan Dam & Reservoir	Roan Creek	Reservoir	0	10,000	6/30/1936	Colorado River Water Cons Dist
4	Galyean Well	Roan Creek	Well	0.5	0	5/15/1948	Texaco Inc
5	Union 76 Water Well No 3	Parachute Creek	Well	0.066	0	2/14/1949	Union Oil - American Soda
6	Union 76 Water Well No 2	Parachute Creek	Well	0.124	0	2/14/1949	Union Oil - American Soda
7	Pumping Pl Union Oil Cal	Colorado River	Pipeline	110.16	0	2/14/1949	EnCana Oil & Gas Company
8	Roan Creek Reservoir	Roan Creek	Reservoir	0	71,300	1/7/1950	Chevron Texaco Shale Oil Co
9	Dragert Pump Plant & Pl	Colorado River	Pipeline	194	0	1/7/1950	Chevron Shale Oil Cp
10	Hayward & Wyatt Pl	Colorado River	Pipeline	12.725	0	2/2/1950	Exxon Colony Project
11	Getty Pipeline	Colorado River	Pipeline	56	0	9/3/1950	Chevron Texaco Shale Oil Co
12	Cities Service Pl And Pp	Colorado River	Pipeline	100	0	8/2/1951	OXY USA Wtp Lp
13	Shale Pumps & Pl	Colorado River	Pipeline	11.11	0	10/7/1951	Frac Tech Services
14	Pacific Oil Co Pl No 1	Colorado River	Pipeline	57.25	0	6/9/1953	Chevron Shale Oil
15	Pacific Oil Co Pl No 2	Colorado River	Pipeline	27.63	0	6/9/1953	Shell Frontier Oil & Gas
16	Flattops Proj Bearwl Res	Canyon Creek	Reservoir	0	96,488.9	6/28/1954	Colorado River Water Cons Dist
17	Flattops Proj Bearwl Con	Canyon Creek	Pipeline	200	0	6/28/1954	Colorado River Water Cons Dist
18	Flattops Proj Bench Flum	Canyon Creek	Ditch	254	0	6/28/1954	Colorado River Water Cons Dist
19	Flattops Proj Poss Colli	Canyon Creek	Ditch	175	0	6/28/1954	Colorado River Water Cons Dist

Table B-1. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
20	East Middle Fork Res	Parachute Creek	Reservoir	0	130,558	9/17/1954	Exxon Oil Company
21	Dow E Middle Fork Pl	Parachute Creek	Pipeline	13.54	0	10/19/1954	Exxon Mobil Corp
22	Dow Middle Fk Pipeline	Parachute Creek	Pipeline	1,088	0	10/20/1954	Exxon Mobil Corp
23	Dow Pump Plant And Pl	Colorado River	Pipeline	187.11	0	1/24/1955	Exxon Mobil Corp
24	Sinclair Oil & Gas Pump	Colorado River	Pipeline	33	0	11/29/1956	Puckett Land Company
25	Eaton Pipeline No 1	Colorado River	Pipeline	9	0	12/17/1956	Puckett Land Company
26	Oil Shale Corp P & Pl	Colorado River	Pipeline	100	0	12/3/1956	Puckett Land Company
27	Virginia Mesa Reservoir	Colorado River	Reservoir	0	50.52	7/18/1957	Chevron Shale Oil
28	Bluestone Project	Colorado River	Ditch	220	0	3/27/1958	Colorado River Water Cons Dist
29	Letson Well	Roan Creek	Well	0.5	0	9/18/1959	Texaco Inc
30	Main Elk Wheeler G Pl	Main Elk Creek	Pipeline	40	0	6/19/1963	Main Elk Corp & Exxon Mobil
31	Mahaffey Pumping P & Pl	Colorado River	Pipeline	60	0	6/19/1963	Main Elk Corp & Exxon Mobil
32	Sheep Trail H Term Res	Parachute Creek	Reservoir	0	160	6/19/1963	Main Elk Corp/Mobil
33	Cottonwood G Term Res	Cottonwood G.	Reservoir	0	160	6/19/1963	Main Elk Corp/Mobil
34	Mahaffey Terminal Res	Colorado River	Reservoir	0	160	6/19/1963	Main Elk Corp/Mobil
35	Allenwater Cr Term Res	Colorado River	Reservoir	0	160	6/19/1963	Main Elk Corp/Mobil
36	Rulison Gulch Term Res	Parachute Creek	Reservoir	0	160	6/19/1963	Main Elk Corp/Mobil
37	Main Elk Reservoir	Main Elk Creek	Reservoir	0	34,922	6/19/1963	Main Elk Corp/Mobil
38	Clear Creek Feeder Pl	Clear Creek	Pipeline	50	0	2/8/1965	Shell Frontier Oil & Gas Inc
39	Deer Park Gulch Res	Clear Creek	Reservoir	0	1,533.6	2/8/1965	Shell Frontier Oil & Gas Inc
40	Deer Park Gulch Pmp & Pl	Colorado River	Pipeline	150	0	2/8/1965	Shell Frontier Oil & Gas Inc
41	Conn Creek Feeder Pl	Conn Creek	Pipeline	50	0	2/8/1965	Shell Frontier Oil & Gas Inc
42	Una Reservoir	Colorado River	Reservoir	0	369,460	3/16/1965	Colorado River Water Cons Dist
43	Una Res Power Conduit	Colorado River	Ditch	2700	0	3/16/1965	Colorado River Water Cons Dist
44	Getty Reservoir No 2	Roan Creek	Reservoir	0	20,670.2	5/17/1965	Texaco Inc
45	Getty Reservoir No 1	Roan Creek	Reservoir	0	2,543.9	5/17/1965	Texaco Inc
46	Conn Creek Pipeline	Conn Creek	Pipeline	10	0	8/25/1966	OXY USA Wtp Lp

Table B-1. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
47	Cascade Canyon Reservoir	Conn Creek	Reservoir	0	619.47	8/25/1966	OXY USA Wtp Lp
48	Cascade Canyon Pipeline	Conn Creek	Pipeline	10	0	8/25/1966	OXY USA Wtp Lp
49	Conn Creek Reservoir	Conn Creek	Reservoir	0	422.75	8/25/1966	OXY USA Wtp Lp
50	Thompson Creek Res	Thompson Creek	Reservoir	0	23,893	12/17/1966	Puckett Land Co
51	Thompson Creek Pipeline	Thompson Creek	Pipeline	33	0	12/17/1966	Puckett Land Co
52	Starkey Gulch Reservoir	Parachute Creek	Reservoir	0	7,360	2/20/1967	Pucket Land Company
53	Getty-Sleepy Gulch Res	Clear Creek	Reservoir	0	6,538	6/27/1967	Texaco Inc
54	Getty W Fk Parachute Cr	Parachute Creek	Reservoir	0	4,658	6/27/1967	Chevron Texaco Shale Oil Co
55	Trail Gulch Res Alt Pt	Carr Creek	Reservoir	0	950.79	9/23/1967	Oil Shale Corp
56	Trail Gulch Reservoir	Roan Creek	Reservoir	0	5,669.21	9/23/1967	Oil Shale Corp
57	Paradise Reservoir	Colorado River	Reservoir	0	69,895.7	3/23/1968	Pure Cycle
58	Logan Wash Mine	Roan Creek	Spring	0.11	0	9/1/1972	Occidental Shale Oil
59	Lw-27 Well	Roan Creek	Spring	0.11	0	3/30/1973	Occidental Shale Oil
60	Logan Wash Mine No 3-C	Roan Creek	Spring	0.11	0	2/1/1974	Occidental Shale Oil
61	Davis Gulch Reservoir	Parachute Creek	Reservoir	0	1,194	9/30/1974	Exxon Oil Company
62	Middle Fork Reservoir	Parachute Creek	Reservoir	0	1,470	9/30/1974	Exxon Mobil Corp
63	Ww-1 Well	Roan Creek	Well	0.165	0	11/22/1974	Occidental Shale Oil
64	Logan Wash Pump No 1	Roan Creek	Spring	2.9	0	10/30/1979	Occidental Shale Oil
65	Lower E Middle Fork Res	Parachute Creek	Reservoir	0	6,200	2/2/1982	Exxon Oil Company
66	Pacific Spring No 2	Clear Creek	Spring	0.06	0	5/1/1982	Shell Western E & P
67	Pacific Spring No 3	Clear Creek	Spring	0.03	0	5/1/1982	Shell Western E & P
68	Pacific Spring No 9	Conn Creek	Spring	0.04	0	5/1/1982	Shell Western E & P
69	Pacific Spring No 10	Conn Creek	Spring	0.04	0	5/1/1982	Shell Western E & P
70	Pacific Spring No 1	Clear Creek	Spring	0.02	0	5/1/1982	Shell Western E & P
71	Pacific Spring No 7	Clear Creek	Spring	0.06	0	5/1/1982	Shell Western E & P
72	Pacific Spring No 8	Clear Creek	Spring	0.08	0	5/1/1982	Shell Western E & P

Table B-1. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
73	Pacific Spring No 4	Conn Creek	Spring	0.02	0	5/1/1982	Shell Western E & P
74	Pacific Spring No 5	Conn Creek	Spring	0.07	0	5/1/1982	Shell Western E & P
75	Pacific Spring No 6	Conn Creek	Spring	0.05	0	5/1/1982	Shell Western E & P
76	Getty Spring 15b	Clear Creek	Spring	0.027	0	7/1/1983	Chevron Texaco Shale Oil Co
77	Getty Spring 17a	Clear Creek	Spring	0.007	0	7/1/1983	Chevron Texaco Shale Oil Co
78	Getty Spring 20a	Clear Creek	Spring	0.037	0	7/1/1983	Chevron Texaco Shale Oil Co
79	Getty Spring 1b	Parachute Creek	Spring	0.097	0	7/1/1983	Chevron Texaco Shale Oil Co
80	Getty Spring 10a	Clear Creek	Spring	0.787	0	7/1/1983	Chevron Texaco Shale Oil Co
81	Getty Spring 12c	Clear Creek	Spring	0.027	0	7/1/1983	Chevron Texaco Shale Oil Co
82	Getty Spring 09a	Clear Creek	Spring	0.327	0	7/1/1983	Chevron Texaco Shale Oil Co
83	Getty Spring 11e	Clear Creek	Spring	0.007	0	7/1/1983	Chevron Texaco Shale Oil Co
84	Getty Spring 11b	Clear Creek	Spring	0.027	0	7/1/1983	Chevron Texaco Shale Oil Co
85	Getty Spring 11c	Clear Creek	Spring	0.027	0	7/1/1983	Chevron Texaco Shale Oil Co
86	Getty Spring 19a	Clear Creek	Spring	0.007	0	7/1/1983	Chevron Texaco Shale Oil Co
87	Getty Spring 10b	Clear Creek	Spring	0.017	0	7/1/1983	Chevron Texaco Shale Oil Co
88	Getty Spring 15a	Clear Creek	Spring	0.047	0	7/1/1983	Chevron Texaco Shale Oil Co
89	Getty Spring 18a	Clear Creek	Spring	0.637	0	7/1/1983	Chevron Texaco Shale Oil Co
90	Getty Spring 14e	Clear Creek	Spring	0.027	0	7/1/1983	Chevron Texaco Shale Oil Co
91	Getty Spring 11a	Clear Creek	Spring	0.187	0	7/1/1983	Chevron Texaco Shale Oil Co
92	Getty Spring 16b	Clear Creek	Spring	0.057	0	7/1/1983	Chevron Texaco Shale Oil Co
93	Getty Spring 14a	Clear Creek	Spring	0.127	0	7/1/1983	Chevron Texaco Shale Oil Co
94	Cities Service Spg 41	Conn Creek	Spring	0.03	0	7/19/1983	OXY USA Inc, C/O Legal Div
95	Cities Service Spg 17	Conn Creek	Spring	0.05	0	7/19/1983	OXY USA Inc, Legal Div
96	Cities Service Spg 39	Conn Creek	Spring	0.09	0	7/19/1983	OXY USA Inc, Legal Div
97	Cities Service Spg 07	Clear Creek	Spring	0.12	0	7/19/1983	OXY USA Inc, C/O Legal Div
98	Cities Service Spg 40	Conn Creek	Spring	0.03	0	7/19/1983	OXY USA Inc, C/O Legal Div
99	Cities Service Spg 13	Conn Creek	Spring	0.05	0	7/19/1983	OXY USA Inc, C/O Legal Div

Table B-1. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
100	Cities Service Spg 18	Conn Creek	Spring	0.05	0	7/19/1983	OXY USA Inc, C/O Legal Div
101	Cities Service Spg 08	Clear Creek	Spring	0.02	0	7/19/1983	OXY USA Inc, C/O Legal Div
102	Cities Service Spg 11a	Conn Creek	Spring	0.02	0	7/19/1983	OXY USA Inc, C/O Legal Div
103	Cities Service Spg 03	Conn Creek	Spring	0.02	0	7/19/1983	OXY USA Inc, C/O Legal Div
104	Cities Service Spg 22	Conn Creek	Spring	0.05	0	7/19/1983	OXY USA Inc, C/O Legal Div
105	Cities Service Spg 38	Conn Creek	Spring	0.06	0	7/19/1983	OXY USA Inc, C/O Legal Div
	Total structures: 105			Total: 4,996.03 cfs	Total: 736,770.6 af		

Table B-2.
White River Basin – Conditional Rights

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
1	Lost Park Reservoir	Lost Ck	Reservoir	0	33,541	11/9/1953	Yellow Jacket Water Cons Dist
2	Lost Park Feeder C. 1	Tributaries-N. Fk	Ditch	100	0	11/9/1953	Yellow Jacket Water Cons Dist
3	Lost Park Feeder C. 2	Tributaries-N. Fk	Ditch	100	0	11/9/1953	Yellow Jacket Water Cons Dist
4	Yellow Jacket Canal	North Fork	Ditch	500	0	11/9/1953	Yellow Jacket Water Cons Dist
5	Ripple Creek Reservoir	North Fork	Reservoir	0	27,992	11/19/1953	Yellow Jacket Water Cons Dist
6	Stillwater Power Plant	South Fork	Pipeline	300	0	5/29/1955	Shell Frontier Oil & Gas Inc
7	Stillwater Reservoir	South Fork	Reservoir	0	12,548	5/29/1955	Exxon Mobil Corporation
8	Miller Creek Pumping Pl	White River	Pipeline	100	0	5/26/1957	Tosco Corporation
9	Ertl Pipeline Hg 1	Buck Ck	Pipeline	15	0	5/26/1957	Tosco Corporation
10	Ertl Pipeline Hg 2	Wagon Wheel Ck	Pipeline	1	0	5/26/1957	Tosco Corporation
11	Ertl Pipeline Hg 3	Patterson Ck	Pipeline	7	0	5/26/1957	Tosco Corporation
12	Ertl Pipeline Hg 4	Patterson Ck	Pipeline	7	0	5/26/1957	Tosco Corporation
13	Boies Reservoir	Black Sulphur Ck	Reservoir	0	31,020.8	7/10/1961	Exxon Mobil Corporation
14	Piceance Canal	Piceance Ck	Pipeline	50	0	7/10/1961	Exxon Mobil Corporation
15	Flattops Tunnel	South Fork	Pipeline	254	0	10/31/1961	Colorado River Water Cons Dist
16	Piceance Basin Pl Coll S	South Fork	Pipeline	60	0	10/31/1961	Colorado River Water Cons Dist

Table B-2. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
17	Rangely Reservoir	White River	Reservoir	0	131,034.5	10/31/1961	Colorado River Water Cons Dist
18	Patterson Cr Coll. Sys	Patterson Ck	Pipeline	75	0	10/31/1961	Colorado River Water Cons Dist
19	Rio Blanco Reservoir	South Fork	Reservoir	0	131,034.5	10/31/1961	Colorado River Water Cons Dist
20	Strawberry Creek Res	Strawberry Ck	Reservoir	0	7,5957	10/31/1961	Colorado River Water Cons Dist
21	Wray Gulch Dam & Res	Wray Gulch	Reservoir	0	2,9374	10/31/1961	Colorado River Water Cons Dist
22	Douglas Canal	White River	Ditch	620	0	7/3/1962	Colorado River Water Cons Dist
23	Wolf Ck Res(Crwd)	White River	Reservoir	0	162,400	7/3/1962	Colorado River Water Cons Dist
24	Wolf Ck Res	Wolf Ck	Reservoir	0	35,000	7/3/1962	Exxon Mobil Corporation
25	Ryan Gulch Reservoir	Piceance Ck	Reservoir	0	22,635.2	12/15/1963	Exxon Mobil Corporation
26	White River Pumping Pl	White River	Pipeline	100	0	12/15/1963	Exxon Mobil Corporation
27	Jumps Cabin Res	West Hunter Ck	Reservoir	0	7,868.8	5/27/1964	Humble Oil Company
28	Howells Cabin Res	Willow Ck/Pic. Ck	Reservoir	0	8,096	5/27/1964	?
29	Fourteen Mile Res 1	Fourteen Mile Ck	Reservoir	0	60,000	6/24/1964	Shell Frontier Oil & Gas Inc
30	White R. Fourteen M. Pl	White River	Pipeline	200	0	9/12/1964	Shell Frontier Oil & Gas Inc
31	South Fork Pipeline	South Fork	Pipeline	100	0	9/14/1964	Shell Frontier Oil & Gas Inc
32	South Fork Reservoir	South Fork	Reservoir	0	8,5342	9/14/1964	Shell Frontier Oil & Gas Inc
33	White River Pl No 2	White River	Pipeline	120	0	10/12/1964	Exxon Mobil Corporation
34	South Fork Piceance Pl	South Fork	Pipeline	70	0	5/29/1965	Exxon Mobil Corporation
35	Wolf Ridge Feeder Pl	White River	Pipeline	100	0	11/19/1966	Ehs Manager, Natural Soda Inc
36	Wolf Ridge Res	Yellow Ck	Reservoir	0	7,380	11/19/1966	Ehs Manager, Natural Soda Inc
37	Hunter Ck Res	Hunter Ck	Reservoir	0	24,362	2/28/1967	Tosco Corporation
38	Ohio Ertl Pl	White River	Pipeline	55	0	2/28/1967	Tosco Corporation
39	Story G Parachute Pl	White River	Pipeline	55	0	2/28/1967	Tosco Corporation
40	Story Gulch Res	Story Gulch	Reservoir	0	25,000	2/28/1967	Tosco Corporation
41	Colo Min Well No 28-1	Yellow Ck	Well	4.94	0	2/28/1967	Ehs Manager, Natural Soda Inc
42	Colo Min Well No 14-1	Yellow Ck	Well	4.94	0	2/28/1967	Ehs Manager, Natural Soda Inc

Table B-2. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
43	Dunn Well No 20-1	Yellow Ck	Well	4.94	0	2/28/1967	Ehs Manager, Natural Soda Inc
44	Savage Well No 24-1	Yellow Ck	Well	4.94	0	2/28/1967	Ehs Manager, Natural Soda Inc
45	Hunter Cr Wells	Hunter Ck	Well	30	0	3/8/1967	Exxon Mobil Corporation
46	Superior Oil Term Res	White River	Reservoir	0	800	5/14/1968	Exxon Mobil Corporation
47	Superior Oil Pl	White River	Pipeline	24	0	5/14/1968	Exxon Mobil Corporation
48	Miller Ck Res	Miller Ck	Reservoir	0	45,900	7/18/1968	Tosco Corporation
49	Blacks Gulch Pipeline	White River	Pipeline	100	0	9/1/1968	Exxon Mobil Corporation
50	Blacks Gulch Res	Blacks Gulch	Reservoir	0	13,900	9/1/1968	Exxon Mobil Corporation
51	Crooked Wash P.L.	White River	Pipeline	100	0	9/1/1968	Exxon Mobil Corporation
52	Crooked Wash Res	Crooked Wash	Reservoir	0	11,800	9/1/1968	Exxon Mobil Corporation
53	Kellogg Gulch P.L.	White River	Pipeline	100	0	9/1/1968	Exxon Mobil Corporation
54	Kellogg Gulch Res	Kellogg Gulch	Reservoir	0	3700	9/1/1968	Exxon Mobil Corporation
55	Wray Gulch Res	Wray Gulch	Reservoir	0	13,500	9/1/1968	Exxon Mobil Corporation
56	Superior Pumpback Pl 1	White River	Pipeline	12	0	10/5/1968	Exxon Mobil Corporation
57	Superior Pumpback Pl 2	White River	Pipeline	12	0	10/5/1968	Exxon Mobil Corporation
58	Superior Pumpback Pl 3	White River	Pipeline	12	0	10/5/1968	Exxon Mobil Corporation
59	Wolf Ck Pl	White River	Pipeline	70	0	9/30/1971	Exxon Mobil Corporation
60	Tg 71-5 Well	Stewart Gulch	Well	1.111	0	11/29/1971	Oil Shale Corporation
61	Tg 71-4 Well	Stewart Gulch	Well	0.888	0	12/3/1971	Oil Shale Corporation
62	Tg 71-3 Well	Stewart Gulch	Well	0.444	0	12/13/1971	Oil Shale Corporation
63	Strawberry Creek Pl	White River	Pipeline	400	0	6/16/1972	Colorado River Water Cons Dist
64	Wray Gulch Pipeline	White River	Pipeline	100	0	7/19/1972	Exxon Mobil Corporation
65	Wray Gulch Pl (Crwcd)	White River	Pipeline	450	0	7/19/1972	Colorado River Water Cons Dist
66	Liberty Bell Well No 12	Story Gulch	Well	0.888	0	12/5/1972	Oil Shale Corporation
67	Camp Bird Well 12	Trib.-Piceance Ck	Well	0.444	0	9/6/1973	Oil Shale Corporation
68	Camp Bird Well 12a	Trib.-Piceance Ck	Well	0.444	0	9/6/1973	Oil Shale Corporation

Table B-2. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
69	Colo White R Hyd.Plant	White River	Pipeline	500	0	9/6/1973	Yellow Jacket Water Cons Dist
70	North Fork Fdr Conduit	North Fork	Pipeline	500	0	10/7/1976	Yellow Jacket Water Cons Dist
71	Sawmill Mountain Res	Big Beaver Ck	Reservoir	0	80,000	10/7/1976	Yellow Jacket Water Cons Dist
72	Ohio Well No 41	West Willow Ck	Well	0.044	0	8/22/1977	Oil Shale Corporation
73	Colo White R Res	White River	Reservoir	0	105,000	11/17/1981	Yellow Jacket Water Cons Dist
74	Getty Spring 3b	Willow Ck/Pic. Ck	Spring	0.637	0	7/1/1983	Getty Oil
75	Mobil Pump Station Pl	White River	Pipeline	200	0	5/4/1984	Exxon Mobil Corporation
76	Larson Res	Trib.-Piceance Ck	Reservoir	0	1,200	4/5/1988	Ehs Manager, Natural Soda Inc
77	Swepi Spring 1	Duck Ck	Spring	0.367	0	6/13/1988	Shell Frontier Oil & Gas Inc
78	Swepi Spring 10	Spruce Gulch	Spring	0.489	0	6/13/1988	Shell Frontier Oil & Gas Inc
79	Swepi Spring 13	Stake Springs Ck	Spring	0.222	0	6/13/1988	Shell Frontier Oil & Gas Inc
80	Swepi Spring 2	Water Gulch	Spring	0.233	0	6/13/1988	Shell Frontier Oil & Gas Inc
81	Swepi Spring 3	Water Gulch	Spring	0.178	0	6/13/1988	Shell Frontier Oil & Gas Inc
82	Swepi Spring 5	Water Gulch	Spring	0.044	0	6/13/1988	Shell Frontier Oil & Gas Inc
83	Swepi Spring 6	Corral Gulch	Spring	0.178	0	6/13/1988	Shell Frontier Oil & Gas Inc
84	Swepi Spring 7	Corral Gulch	Spring	0.078	0	6/13/1988	Shell Frontier Oil & Gas Inc
85	Swepi Spring 8	Spruce Gulch	Spring	0.011	0	6/13/1988	Shell Frontier Oil & Gas Inc
86	Swepi Spring 9	Spruce Gulch	Spring	0.011	0	6/13/1988	Shell Frontier Oil & Gas Inc
87	Exxon Love Ranch Res	Piceance Ck	Reservoir	0	30	11/17/1998	Exxon Mobil Corporation
88	Exxon Boies Bulpur Res	Black Sulphur Ck	Reservoir	0	50	11/17/1998	Exxon Mobil Corporation
89	Exxon B&M Reservoir	Piceance Ck	Reservoir	0	50	11/17/1998	Exxon Mobil Corporation
90	Exxon Hunter Creek Res	Hunter Ck	Reservoir	0	30	11/17/1998	Exxon Mobil Corporation
91	Exxon Willow Creek Res	Willow Ck/ Pic Ck	Reservoir	0	30	11/17/1998	Exxon Mobil Corporation
92	Exxon Yellow Ck Res	Yellow Ck	Reservoir	0	30	11/17/1998	Exxon Mobil Corporation

Table B-2. (cont'd)

Map Location	Structure Name	Water Source	Structure Type	Quantity (cfs)	Quantity (af)	Appropriation Date	Appropriation Owner
93	Exxon Dry Creek Res	Trib.-Piceance Ck	Reservoir	0	20	11/17/1998	Exxon Mobil Corporation
94	Exxon Upper Piceance Ck	Piceance Ck	Ditch	4	0	11/17/1998	Exxon Mobil Corporation
95	Exxon Piceance Ck Div	Piceance Ck	Ditch	4	0	11/17/1998	Exxon Mobil Corporation
96	Exxon Lower Piceance	Piceance Ck	Ditch	4	0	11/17/1998	Exxon Mobil Corporation
97	Exxon Thirteen Mile Ck	Thirteen Mile Ck	Ditch	1	0	11/17/1998	Exxon Mobil Corporation
98	Exxon Willow Ck Div	Willow Ck/Pic Ck	Ditch	2	0	11/17/1998	Exxon Mobil Corporation
99	Exxon Hunter Ck Div	Hunter Ck	Ditch	2	0	11/17/1998	Exxon Mobil Corporation
100	Exxon Upper Fawn Ck	Fawn Ck	Ditch	1	0	11/17/1998	Exxon Mobil Corporation
101	Exxon Lower Fawn Ck	Fawn Ck	Ditch	2	0	11/17/1998	Exxon Mobil Corporation
102	Exxon Up. B. Sulphur Ck	Black Sulphur Ck	Ditch	1	0	11/17/1998	Exxon Mobil Corporation
103	Exxon Mid Blk Sulphur	Black Sulphur Ck	Ditch	2	0	11/17/1998	Exxon Mobil Corporation
104	Exxon B Sulp-Fawn Ck	Black Sulphur Ck	Ditch	2	0	11/17/1998	Exxon Mobil Corporation
105	Exxon Blk Sulphur-Pic	Black Sulphur Ck	Ditch	2	0	11/17/1998	Exxon Mobil Corporation
106	Exxon M. Fk Stewart Ck	Stewart Gulch	Ditch	3	0	11/17/1998	Exxon Mobil Corporation
107	Exxon E. Fk Stewart Ck	Stewart Gulch	Ditch	3	0	11/17/1998	Exxon Mobil Corporation
108	Exxon Upper Dry Fork	Trib.-Piceance Ck	Ditch	1	0	11/17/1998	Exxon Mobil Corporation
109	Exxon Lower Dry Fork	Trib.-Piceance Ck	Ditch	3	0	11/17/1998	Exxon Mobil Corporation
110	Exxon Yellow Ck Div	Yellow Ck	Ditch	3	0	11/17/1998	Exxon Mobil Corporation
111	Exxon Duck Ck Div	Duck Ck	Ditch	1	0	11/17/1998	Exxon Mobil Corporation
112	Exxon Corral Ck Div	Corral Gulch	Ditch	1	0	11/17/1998	Exxon Mobil Corporation
113	Exxon Ryan Gulch Div	Ryan Gulch	Ditch	1	0	11/17/1998	Exxon Mobil Corporation
114	Shell Pumping Plant	White River	Pipeline	25	0	1/1/1999	Shell Frontier Oil & Gas Inc
	Total structures: 114			Total: 5,693.47 cfs	Total: 1,186,625.8 af		

