

SPDSS Memorandum Final

To: Ray Alvarado and Ray Bennett
From: LRE, Erin Wilson
Subject: Task 3 – Identify Key Diversion Structures
Notes from Water District 3 Meeting
Date: June 9, 2004

Introduction

This memorandum provides notes from September 30, 2003 meeting with Water District 3 Water Commissioner. Meetings are being held with Water Commissioners in each Water District in the SPDSS study area. The objectives of these meetings are 1) to develop an initial basin understanding; 2) to determine what irrigation structures should be included as “Key Structures” in future detailed modeling efforts, and 3) to determine which reservoirs and diversions warrant more detailed investigation and technical documentation. These objectives support both Task 3 – Identify Key Diversion Structures and Task 5 – Identify Key Storage Reservoirs and Develop Operating Memorandum. Information in this memorandum is believed to be accurate. However, this information should not be relied upon in any legal proceeding.

Approach

Prior to the meeting, potential Key Structures for Division 3 were identified using the following procedure outlined in the SPDSS Scope of Work:

1. Identify net absolute water rights per structure. Select initial key structure cutoff value based on the 85 percent recommendation (SPDSS Feasibility Study, October 2001) for each water district.
2. Determine average annual diversion data for structures during three average hydrologic years, one year each during the 1950s, the 1970s, and the 1990s. Add additional structures to the key list that diverted an average of 1,000 acre-feet per year on the main stem during any of the representative years. Note that this step will allow the inclusion of larger diversion structures having active water rights during the earlier years of the study that were subsequently transferred to other ditches or other uses.
3. Review readily available straight-line diagrams and include additional structures as appropriate, based on water rights and location.

Table 1, provided in the Results Section of this memorandum, lists the initial list of key diversion structures, the total of their decreed water rights, the period of record of

available diversion records, their average annual diversions for the period of record, and the water source. In addition, as noted in the comment line, it includes new structures added during the interviews, or structures that were removed as key and will be modeled in an aggregated fashion. Table 1 generally lists structures in upstream to downstream order. On-going Task 3 efforts include review of irrigated acreage, water rights, and diversion records. It is expected that the key structure list shown in Table 1 will be further refined during these, and model development, efforts.

The interview with the Water Commissioner and the Division Engineer was intended to determine additional structures that should be considered key based on seniority, water administration, or basin operations (including structures with supplemental reservoir water). Prior to the meeting, a brief description of the purpose and goals of the interview was provided to the Water Commissioner, George Vera. The following is a summary of the meeting agenda:

1. Review straight-line diagrams for accuracy
2. Develop a list of major projects, reservoirs, and ditches in the water district, including names of knowledgeable contact people
3. Gather information on dry-up points in the river, calling rights, augmentation plans, and administration specific to the water district
4. Gather general information on the preliminary list of irrigation diversions selected to be included in future detailed modeling efforts (key structures), and solicit input on their final inclusion
5. Develop information on reservoirs, such as owner entities, ditches that get reservoir deliveries, assigned delivery losses, etc.

David Ellington, Division 1, developed a preliminary straight-line diagram of the lower portion of Water District 3. In addition, LRE developed maps of the water district to facilitate the discussions. Maps displayed reservoirs, diversion headgate locations, and canal layouts on a quad-sheet background.

Meeting Attendance

The meeting was held at the Division 1 offices in Greeley. The following people attended part or all of the meeting:

Jim Hall – Division 1 Engineer
George Vera– District 3 Water Commissioner
David Ellington – Division 1
Ray Bennett – SEO Denver
David Nettles – Division 1
Erin Wilson, Leonard Rice Engineers

Meeting Notes

Jim Hall began the meeting discussing the four “big” players on the Cache La Poudre River:

- North Poudre Irrigation Company (larger rights are the most junior of the four). Ft. Collins is the single largest share holder. The municipal Tri-districts are also share holders.
- Water Supply and Storage Company (WSSC) - Larimer County Ditch (0300911)
- Larimer and Weld Irrigation Company - Larimer Weld Irrigation Canal (0300919) (larger rights are the second most senior of the four ditches). Owned by Larimer and Weld Irrigation Company and by Windsor Reservoir Company.
- New Cache La Poudre Irrigating Company - New Cache La Poudre Company Ditch, aka Greeley #2 or #2 (0300929) (larger rights are the most senior of the four big players).

Transbasin Diversions

- Andy Pineda (Northern Colorado Water Conservancy District) developed a spreadsheet to keep track of transbasin diversions into the Cache La Poudre Basin (Poudre). George has continued to update the spreadsheet since he has been water commissioner. He provided the spreadsheet to LRE.
- **Deadman Ditch** (0304608) is an open canal that diverts water from the Laramie River Basin into Sand Creek. The water is then re-diverted by **Wilson Supply Ditch** (0304604) and brought through an open canal into Sheep Creek (tributary to the North Fork of the Poudre River basin). Water from Sand Creek can also be diverted through the Wilson Supply Ditch. Both Deadman Ditch (DEADDPCO) and Wilson Supply Ditch (06750500) are recorded in HydroBase under streamgage identifiers. The Wilson Supply Ditch also has a decree for 288 cfs, priority date 6-15-1899 (decreed under the Sand Creek Ditch System, 4800583). Water diverted through the Wilson Supply Ditch into Sheep Creek is stored in Worster Reservoir (0303726 ~5,000 af). The Divide Canal and Reservoir Company owns Worster Reservoir, also known as Eaton Reservoir. The Divide Canal and Reservoir Company is a separate company from Larimer and Weld Irrigation Company, but shares in both companies are held by irrigators under the Larimer Weld Irrigation Canal. Larimer Weld Irrigation Canal can deliver C-BT water to Woods Lake Irrigation Company for storage and irrigation downstream of Woods Lake in exchange for water stored in Worster. Woods Lake can only be filled via Larimer Weld Irrigation Canal.
- **Grand River Ditch** (5104601 and 0304601) diverts water from the Colorado River to Long Draw Reservoir (0303676 ~10,000 af), then releases as needed for diversion through the Larimer County Ditch (0300911). It is owned by the Water Supply and Storage Company (WSSC). About 90 percent of storage in Long Draw Reservoir is imported water from Grand River Ditch, the remaining is stored by exchange for water in WSSC's lower reservoirs. Grand River Ditch diversions are recorded in HydroBase under streamgage identifier 09010000.

- **Laramie Poudre Tunnel** (4804600 and 0304600) diverts water from the Laramie River to the Poudre River. It is owned roughly 2/3 by WSSC and 1/3 by the Larimer and Weld Irrigation Company. Diversions are limited by the Laramie River Decree (see below). Most years, as noted below, Skyline Ditch water is diverted through the tunnel, therefore deliveries are generally 86 percent WSSC and 13 percent Larimer and Weld Irrigation Company. Laramie Poudre Tunnel diversions are recorded in HydroBase under streamgage identifier 06747000.
- **Cameron Pass Ditch** (4704602) diverts water from the Middle Fork of the Michigan River in the North Platte River basin to the Poudre basin. The ditch is owned by WSSC. Water is delivered for use and storage through the Larimer County Ditch (0300911) or stored in Chambers Lake (0303679). Cameron Pass Ditch diversions are recorded in HydroBase under streamgage identifier CAPDCPCO.
- **Skyline Ditch** (0304605 and 4800577) diverts water from the Laramie River basin into the Poudre basin. The ditch is owned by WSSC. Water is delivered for use and storage through the Larimer County Ditch (0300911). Diversions are limited by the Laramie River Decree (see below). Skyline Ditch rights can be delivered via Skyline Ditch or Cameron Pass Ditch and stored in Chambers Lake. Most years, Skyline Ditch rights are delivered through the Laramie Poudre Tunnel. These deliveries are not accounted for separately from WSSC Laramie Poudre Tunnel rights. Skyline Ditch diversions are recorded in HydroBase under streamgage identifier 06746500.
- **Michigan Ditch** (4704603 and 0304603) diverts water from Michigan River in the North Platte River basin to Joe Wright Reservoir, aka Mountain Supply Reservoir 20 (0303678 ~ 7,000 acre-feet) The ditch is owned by the City of Fort Collins. Michigan Ditch diversions are recorded in HydroBase under streamgage identifier 06746000.
- **Bob Creek Ditch** (0304606 and 4800573) diverts water from the Laramie River basin to the Poudre basin. The ditch is owned by the City of Greeley. Columbine Ditch, also owned by the City of Greeley, diverted from the Laramie River basin to the Poudre basin from the 1930s until 1956, but no longer diverts, although the water rights are active. Bob Creek Ditch diversions are limited by the Laramie River Decree (see below). Bob Creek Ditch diversions are recorded in HydroBase under streamgage identifier BOBGLNCO.

Compacts and Agreements Affecting District 3 Administration

- **North Platte River Basin Decree.** The 1945 and 1953 decrees limit Colorado's use of North Platte River basin water as follows:
 1. Total irrigation in Jackson County (Water District 47) is limited to 145,000 acres.
 2. Total storage for irrigation during any one irrigation season is limited to 17,000 acre-feet.
 3. The amount of total water exported from the North Platte River in Colorado is limited to 60,000 acre-feet per year on average during any 10-year period. Transmountain exports from the North Platte into Water District 3 include Cameron Pass Ditch and Michigan Ditch.

- **Laramie River Decree.** The 1957 Substitute Decree in Wyoming v. Colorado [353 U.S. 953 (1957)] permits Colorado to divert 49,375 acre-feet per year from the Laramie River basin as follows:
 1. 19,875 acre-feet per year may be diverted by Colorado for transmountain users. Transmountain users include Water Supply and Storage Company (Laramie Poudre Tunnel Diversion and Skyline Ditch), The Tunnel Water Company (Laramie Poudre Tunnel Diversion and Skyline Ditch), The Divide Canal and Reservoir Company (Deadman Ditch), and the City of Greeley (Bob Creek Ditch and Columbine Ditch). Each of these diversions exports water from the Laramie River basin into Water District 3.
 2. 29,500 acre-feet per year may be diverted by Colorado irrigators (called the “meadow users”) for use within the basin (Water District 48), of which not more than 1,800 acre-feet can be diverted after July 31st of each year.
 3. Any portion of the 19,875 acre-feet per year not diverted by Colorado for use outside the basin can be added to the 29,500 acre-feet per year permitted for use within the basin.
 4. All waters diverted by Colorado for use within the basin are restricted to irrigation use on the 4,845 acres designated by the court at the time of the decree.

- **Sand Creek Memorandum of Agreement.** The original Memorandum of Agreement was signed in 1939. An Addendum was signed in 1997 that revised the original Sand Creek Agreement to reflect actual agreement administration as follows:
 1. At the start of each irrigation season, Wyoming shall give notice to Colorado when Wyoming’s demand reaches 40 cfs. When that occurs, Colorado will deliver up to 40 cfs, or that available after Colorado’s pre-June 15, 1899 water rights, listed in the agreement, are satisfied.
 2. Colorado will deliver 40 cfs to the state line gage for a period of seven days (need not be consecutive), then will deliver 35 cfs when Wyoming senior appropriators, listed in the agreement, need 35 cfs.

Stream Gages and General Administration

- The USGS gages on the North Fork of the Poudre River are suspect. This includes the North Fork of the Cache La Poudre River below Halligan Reservoir (06751150) and the North Fork of the Cache La Poudre River at Livermore (06751490). There is a State gage used for administration only below Seaman Reservoir.
- The Colorado Division of Water Resources (DWR) Cache La Poudre River at Canyon Mouth (06752000) near Ft. Collins gage is considered good. The USGS Cache La Poudre River at Ft. Collins gage (06752260) is considered good.
- The Cache La Poudre River above Box Elder Creek near Timnath gage (06752280) gage is considered good.
- There is a DWR gage downstream of the New Cache La Poudre Canal and below the Fossil Creek Inlet Ditch that is used for administration only. It is considered a good gage.
- The DWR Cache La Poudre River near Greeley gage (06752500) is considered good.

- George Varra has been in Water District 3 since 1988. He was deputy water commissioner until he became the water commissioner in 2000.
- The Water Commissioner in District 3 generally does more “management” than other districts including:
 - Diversions through and releases from Fossil Creek Reservoir
 - Authority to manage Timnath Reservoir for New Cache La Poudre Irrigating Company. Historically he handled daily management, but recently New Cache La Poudre Irrigating Company has taken on the daily responsibilities.
 - Management of releases out of Windsor Reservoir to New Cache La Poudre Canal. Larimer and Weld Irrigation Company and New Cache La Poudre Irrigating Company have an “Inter-company Operation Procedure” that gives water management authority to the water commissioner.
- There is very little administration of small diversions on the North Fork of the Cache La Poudre, with the exception of Calloway Ditches 1 and 2 and Chase Ditch.
- Lone Pine Creek (tributary to North Fork) is administered because of the senior priorities of the lower ditches (Hansen Ditches).
- George maintains end-of-month (EOM) contents for the mountain reservoirs and has area/capacity information for most reservoirs in District 3.
- Releases from the mountain reservoirs are officially charged a delivery loss of 1/10 of 1 percent per mile. For ease of administration, this is approximated at a flat 5 percent of total release.
- Evaporation is not charged for most reservoirs – most reservoirs are off-channel.
- Ground water is generally used only to supplement surface water sources. Ground water use generally fell into the following categories:
 - Coffin Decree Wells – wells are decreed as non-tributary
 - Poudre Plan Wells – out-of-priority use is augmented under the Poudre Augmentation Plan. The plan is administered by the plan holders, and provided to the water commissioner at the end of the year. This plan is not accepting new wells.
 - GASP Wells – out-of-priority diversions were augmented by GASP until 2003.
 - Central Wells – Central Colorado Water Conservancy District covers some well use in the lower Poudre basin.
 - New Cache La Poudre Irrigation Company has filed for a plan, called the Lower Poudre Plan, to provide augmentation water to well users under their system and others in the lower Poudre area.
- The Joint Operating Plan (JOP) is an agreement between Ft. Collins, Greeley, and the Forest Service to maintain 10 cfs in the upper reach Poudre River from November 1 through March 1. 10 cfs is released from either Barnes Meadow Reservoir (0303683 ~ 2,350 acre-feet) or Chambers Lake (0303679, decreed for 1,400 acre-feet), of which 4 cfs is generally used by the City of Fort Collins through the Ft. Collins Pipeline (0300906), and 6 cfs is used by the City of Greeley through the Greeley Filters Pipeline (0300908). In addition, Joe Wright Reservoir, aka Mountain Supply Reservoir 20 (0303678 ~ 7,000 acre-feet) releases 1 cfs during that period, used by Ft. Collins. Note that the JOP has operated for only about the last 10 years.

- The following table provides a normal year river call sequence:

Normal Year River Call Sequence

Winter	<p>2 Senior Rights owned by Ft. Collins (15 cfs) and Greeley (12.5 cfs). If Greeley's rights can't be satisfied by direct diversions, they will release out of Seaman Reservoir and keep track of North Poudre Irrigation Company's out-of-priority storage in Halligan Reservoir. If Seaman doesn't fill, North Poudre releases their out-of-priority storage from Halligan. Timnath Reservoir has the #1 storage right during the winter. Except for Timnath and Fossil Creek reservoirs, most off-channel reservoirs do not store in the winter. On-channel reservoirs storing in the winter include:</p> <ul style="list-style-type: none"> ▪ Halligan Reservoir ▪ Chambers Lake ▪ Long Draw Reservoir ▪ Joe Wright Reservoir <p>Seaman and Worster reservoirs may store out-of-priority to Timnath during the winter, but must release if Timnath doesn't fill.</p>
Begin Irrigation Season – April	Direct Right Diversions
May to mid June	Direct Right Diversions and Diversions for Storage. Try to allow storage as long and possible, by satisfying water rights below New Cache La Poudre's headgate with releases from Fossil Creek Reservoir.
Mid June until End of Irrigation Season	Direct Right Diversions

- Most years, reservoirs fill in the basin. In drier years, Cobb Reservoir, "Big" Windsor Reservoir, and the Larimer-Weld Reservoirs may not fill. Cobb Reservoir is at the end of Poudre Valley Canal, and may not fill even in wet years.

- Junior rights in the basin are considered to be rights higher than water district priority 97, corresponding to North Poudre Canal's 614 cfs right (administration number 10989).
- Irrigation season dry up points in the river, downstream to upstream, are as follows:
 - Below Ogilvy Ditch (0300937), which is the last diverting ditch before the confluence with the South Platte. The historical general administration goal was to deliver no water to the South Platte unless there was a call. New augmentation plans will likely require that some water be delivered downstream of the ditch to replace South Platte depletions.
 - Below Canal 3 Ditch (0300934), except augmentation replacements.
 - Below Fossil Creek Reservoir Inlet Canal (0300927) to the confluence of Fossil Creek and the Poudre.
 - Below the inlet for Watson Lake (0302134) – only during low flows, for about ¼ mile. Watson Lake is a flow-through lake owned by the Colorado Division of Wildlife for water fowl habitat.
- Winter dry-ups are as follows:
 - Below Greeley Filters Pipeline (0300908)
 - Below Timnath Inlet Canal
 - Below Fossil Creek Inlet Canal
- Fossil Creek Reservoir Inlet Canal gates are always open. Up to 150 cfs from the Poudre River is routed through Fossil Creek Reservoir, which generally operates as an equalizing reservoir. When Poudre River flows are less than 150 cfs, the feeder canal essentially is the river.
- In general, ditch irrigation service areas do not overlap in District 3. There are numerous exchanges between canals, but generally only one canal can physically serve each parcel of land.
- While diversion data coding throughout Colorado is generally consistent, often times administration within different Water Districts results in unique data coding to that Water District. Water District 3 is one of those districts with some unique diversion data coding conventions. These conventions have been utilized by previous Water Commissioners and have been adopted by the current Water Commissioner to maintain consistency throughout the recorded period of record. The following are examples of unique diversion data coding conventions used in Water District 3.
 - All out-of-priority diversions in Water District 3 are coded as use code = Q or 0 and a type code = 3. More current coding convention generally applies a use code of Q while earlier coding convention applied a use code of 0. Data coding of use code = Q and type code = 3 could also indicate an unknown destination for water. For example, out of priority reservoir storage is coded with source code = 1, use code = 0, and type code = 3, while water run in a carrier ditch of unknown destination is coded with source code = 1, use code = Q, and type code = 3.
 - Most off-channel reservoirs have a type code = 6, however there are some exceptions. One exception is Timnath Reservoir. Timnath Reservoir is an off-channel reservoir that is filled through the Timnath Reservoir Inlet Canal. The only use of the inlet canal is for the filling of Timnath Reservoir, therefore Timnath Reservoir type code = 0.

- Diversions coded with source code = 2, use code = Q, and type code = 6 represent reservoir storage water released for substitute water supply plans, augmentation, or exchange.
- Diversions coded with source code = 2, use code = Q, and type code = 7 represent reservoir storage water released to the river for delivery to a particular downstream water user.
- Diversions coded with source code = 2, use code = Q, and type code = 8 represent a balancing factor and could include reservoir water released to the system, evaporation, or seepage from a reservoir. An example of this could include the case where an entity indicates they released x amount of water from an upstream reservoir, however y amount of water showed up at a downstream location. In this instance, the coding convention of source code = 2, use code = Q, and type code = 8 would be used to balance the error.

C-BT Water and Municipal Use

- C-BT water use within District 3 was historically for irrigation, but has increasingly been moving towards municipal. At this time, more than 50 percent of C-BT use in the district is municipal.
- In addition to the larger cities of Ft. Collins and Greeley, there are three rural domestic water suppliers, referred to as the Tri-Districts. They include Ft. Collins-Loveland Water District, East Larimer County Water District, and North Weld County Water District. They rely mostly on C-BT water, but are currently looking to increase their supply by purchasing historical irrigation rights.
- C-BT water is currently delivered to the Poudre River, just below the mouth of Poudre Canyon, from Horsetooth Reservoir through the Hansen Feeder Canal. In addition, Northern Colorado Water Conservancy District (NCWCD) and the municipal suppliers are currently building a new pipeline to increase the reliability of municipal deliveries. The **Pleasant Valley Pipeline** was completed in Spring, 2004 to deliver water from Horsetooth Reservoir north to the Greeley Filters Plant during the winter. In the summer, the pipeline delivers Poudre River water in the reverse direction from a takeout on the Munroe Canal (0300905) to Ft. Collins' Soldier Creek water treatment plant and to the Tri-District plant, also located at Soldier Creek.
- NCWCD has conditional water rights for a potential reservoir site between the hogbacks north of Ted's place (Hook and Moore Glade Reservoir) and another reservoir close to the confluence with the South Platte (Galeton Reservoir) that are proposed as part of the Northern Integrated Supply Project (NISP).

Ditch Specific Information - North Fork of the Cache La Poudre River (North Fork)

- **EP Collins Ditch No 1** (0301005) and **No 2** (0301006), just downstream of Worster Reservoir on Sheep Creek, occasionally divert and still have active water rights. The water commission does not administer Sheep Creek.
- **North Poudre Reservoir 16, aka Halligan Reservoir** (0303712 ~ 6,400 af) is owned by the North Poudre Irrigation Company - which is partially owned by the

City of Ft. Collins. Environmental studies are underway on a proposed enlargement of Halligan Reservoir, which would allow additional storage for Ft. Collins municipal water, Tri-Districts municipal water, and North Poudre Irrigation Company water. The Nature Conservancy has provided water to allow 2 ½ cfs to be released from Halligan into the North Fork through the winter. When the reservoir is enlarged, this release will likely continue without a payback requirement, in return for the Nature Conservancy's support of the project.

- There are several active diversions in the Red Feather Lakes area. The Colorado Division of Wildlife owns Parvin, Doudy, and West Lakes and manages the reservoirs for fish and water fowl habitat. Red Feather Lakes has a senior exchange off the Elkhorn (tributary to the Poudre). They can divert water from the Elkhorn to the South Lone Pine, in exchange for diversions off the North Lone Pine. This removes the call from the downstream senior "Hansen" ditches (0301038, 0301039, 0301040, and 0301041). The junior diversion for Fox Acres Country Club has diverted in exchange for shares in the Mountain and Plains augmentation plan. Fox Acres right is junior to the CWCB instream flow right on South Lone Pine.
- There are several ditches on Rabbit Creek that are owned by the Colorado Division of Wildlife, but there are not diversion records available.
- **Campton Ditch** (0300991), near Cherokee Park, is administered.
- **Milton Seaman Reservoir** (0303713 ~ 7,900 af) is on the North Fork just before the confluence with the Poudre. It is owned by the City of Greeley. There has been discussion about enlarging the reservoir, but it is unlikely. Milton Seaman Reservoir is a Key reservoir.
- **North Poudre Canal** (0300994) has a headgate capacity on the North Fork of approximately 300 cfs and is one of the four "big" players in the basin. Shareholders in the North Poudre Irrigation Company generally receive 5 ½ to 6 acre-feet per share, and approximately half of that is C-BT water.
 - Williams Calloway Ditch 1 (0300995) runs water through the North Poudre Canal and the owner also owns some shares in the canal.
 - Around September 1, they start drawing down Halligan Reservoir and divert water through the North Poudre Canal to store in Park Creek Reservoir (0303715 ~7,300 af) and North Poudre Reservoir #15 (0303716 ~5,500 af).
 - Halligan fills over the winter, then releases begin again in February.
 - The North Poudre Irrigation Company also diverts water from the mainstem Cache La Poudre River through the **North Poudre Supply Canal aka Munroe Canal** (0300905). The canals converge downstream of North Poudre Reservoir 15.
 - The combined canal irrigates lands along the entire length and can store in the following reservoirs. Their common names, and the capacity reported in HydroBase are noted:
 - North Poudre Reservoir 1 aka Miner Lake (0303690) ~ 500 af
 - North Poudre Reservoir 2 aka Demmel Lake (0303697)~ 4,000 af
 - North Poudre Reservoir 3 aka Hackel Lake (0303702)~ 3,400 af
 - North Poudre Reservoir 4 (0303704) ~ 1,700 af
 - North Poudre Reservoir 5 aka Bee Lake (0303698) ~8,400 af
 - North Poudre Reservoir 6 (0303699) ~ 9,000 af

- North Poudre Reservoir 12 & 13 aka Upper and Lower Coal Creek Reservoir aka Clarks Reservoir (0303765) ~ 900 af
- Mountain Supply Reservoir 8 (0303694) ~ 500 af
- Mountain Supply Reservoir 9 (0303695) ~ 650 af
- Mountain Supply Reservoir 10 (0303696) ~ 750 af
- Mountain Supply Reservoir 16 aka Indian Creek Reservoir (0303707) ~ 1,700 af
- Mountain Supply Reservoir 18 aka Hinkley Reservoir (0303708) ~ 900 af
- Boxelder Reservoir 1 (0303717) ~ 150 af
- Boxelder Reservoir 2 (0303719) ~ 100 af
- Boxelder Reservoir 3 (0303703) unknown capacity
- The following reservoirs were historically used by North Poudre Irrigation Company for storage of irrigation water:
 - North Poudre Reservoir 11 aka Stutchell (0303701) ~ 1,700 af
 - Mountain Supply Reservoir 7 aka Bubbles Reservoir (0303693) ~ 200 af
 - Mountain Supply Reservoir 22 aka Wasson Reservoir (0303700) ~ 200 af
 - Boxelder Reservoir 4 (0303705) unknown capacities
- Halligan and Fossil Creek reservoirs are the only reservoirs owned by North Poudre Irrigation Company that are not filled by water diverted through their headgates. It is recommended that in future surface water modeling tasks, both Halligan and Fossil Creek reservoirs be modeled explicitly and the remaining reservoirs be modeled in an aggregated fashion.
- North Poudre Canal and laterals fill and release from Box Elder Reservoir No 1 and 2 – they generally do not pick up water from Box Elder Creek.
- The end of the main canal is at Cobb Lake – owned by Windsor Reservoir and Canal Company.
- North Poudre Irrigation Company shares are separate from Water Supply and Storage shares – there is no commingling of water within the canals and the irrigation service areas are separate.
- Water Supply and Storage takes deliver of water (leased and exchanged) from North Poudre Reservoir 6.
- North Poudre Irrigation Company built **North Poudre Supply Canal aka Munroe Canal** (0300905) in the early 1950s so that they could better utilize C-BT water by exchange. North Poudre Irrigation Company is a major owner of C-BT water stored in **Horsetooth Reservoir** (0303732 ~ 171,000 af).
- North Poudre Irrigation Company exchanges its North Fork, Poudre, and C-BT water through both headgates. Their first choice is to keep water in the North Fork Poudre system.
- Headgates for the City of Ft. Collins, City of Greeley, and the Poudre Valley Canal are between the Munroe Canal headgate and Hansen Feeder Canal (delivers C-BT water to the Poudre River from Horsetooth Reservoir). If these three diverters are whole, they can exchange water into their headgate for C-BT deliveries. This

exchange is generally limited in early spring (April and early May) and late summer. They want to run a minimum of 25 cfs through the North Poudre Supply Canal.

Ditch Specific Information - Upper Poudre River (Above the Confluence with the North Fork)

- There are several high-mountain reservoirs in the upper Poudre drainage. **Chambers Lake** (0303679 ~ 8,800 af) is owned by Water Supply and Storage Company and can store both native water and exported water delivered via Cameron Pass Ditch. Skyline Ditch can deliver transbasin water to Chambers from the Laramie, but generally the water is delivered downstream of the reservoir. Laramie Poudre Tunnel water and Grand River Ditch water can also be stored in Chambers Lake by exchange. **Joe Wright Reservoir**, aka Mountain Supply Reservoir 20 (0303678 ~ 7,000 acre-feet) is owned by the City of Fort Collins and can store both native water and exported water delivered via Michigan Ditch. **Barnes Meadow Reservoir** (0303683 ~ 2,200 af) and Peterson Lake (0303677 ~ 1,200 af) are owned by the City of Greeley. **Long Draw Reservoir** (0303676 ~ 10,500 af) is owned by Water Supply and Storage Company and can store both native water and exported water delivered via the Grand River Ditch. Laramie Poudre Tunnel water can also be stored in Long Draw Reservoir by exchange. As noted above under the **Stream Gages and General Administration** category, these reservoirs are charged a 5 percent delivery loss on releases. The four reservoirs discussed here should be modeled as Key reservoirs.
- The **Home Ditches**, near Kinikini, are owned by the Colorado Division of Wildlife, but do not currently divert.
- **Fry Haskins Ditch** (0300902) does not have diversion records, but is sometimes administered.
- One of the **Barnes Ditches**, near Glen Echo, may be on the abandonment list and two are owned by the Forest Service, but are not diverting.
- **Ft Collins Mtn Park Pipeline** (0300591) no longer diverts, and there are no historic diversion records. George believes the water rights are now owned by the Forest Service.
- **Manhattan Ditch** (0300970) on Manhattan Creek is used for augmentation water for the Buddhist retreat near Red Feather. The Currie Ditches are not active. Swan Ditch No 1 (0300985) and Swan Ditch No 2 (0300986) irrigate pasture – diversion records are not maintained but diversions can be administered.
- The **Currie Ranch Ditches** (1 through 22) on Manhattan Creek no longer divert.
- **Swan Ditch No 1** (0300985) and **Swan Ditch No 2** (0300986) on Manhattan Creek irrigate pasture along the creek. Diversions are not recorded, but the ditches are occasionally administered.
- **North Poudre Supply Canal aka Munroe Canal** (0300905) diverts from the Upper Poudre River as discussed above under the heading **North Poudre Irrigation Company**.
- **Fort Collins Pipeline** (0300906) diverts from the Poudre downstream of the North Poudre Supply Canal and just upstream of the confluence with the North Fork.

Diverted water travels via pipeline to the Soldier Canyon Treatment Plant at the base of Horsetooth Reservoir's Soldier Canyon Dam, west of Ft. Collins.

Ditch Specific Information - Lower Poudre River (Below the Confluence with the North Fork)

- **Canon Canal Co Ditch** (0301188) has active water rights. They sold about 1.35 cfs to Belleview Fish Hatchery for augmentation use. Diversions are taken through a shared headgate with Poudre Valley Canal and, at least since 1991, are reported under WDID 0300907 (with a "from" code of 1188).
- **Poudre Valley Canal** (0300907) is owned by the Windsor Reservoir and Canal Company and has a capacity of 350 cfs. The canal is mainly used to fill storage rights, although there is some irrigation between the mouth of the Poudre Canyon and Ted's Place (Hwy 14 and Hwy 287) using the Cannon Canal water rights. Poudre Valley Canal diverts water for storage in the following reservoirs:
 - Douglas Reservoir (0303725 ~8,800 af). Water is then released from Douglas Reservoir to Larimer County Ditch - 0300911 (owned by Water Supply and Storage Company, WWSC) in exchange for WWSC releasing water from Long Pond to Larimer Weld Irrigation Canal - 0300919 (owned by Larimer and Weld Irrigation Company).
 - Reservoir #8 aka Little Windsor Reservoir (0303727 ~ 10,000 af). Water is released to Larimer Weld Irrigation Canal.
 - Elder Reservoir (0303729 ~1,100 af). Water is released to Larimer Weld Irrigation Canal.
 - Reservoir #8 Annex aka Annex No 8 (0303728 ~ 3,600 af). Water is released to Larimer Weld Irrigation Canal.
 - Cobb Lake (0303730 ~22,300 af). Water is released to Larimer Weld Irrigation Canal and Larimer County Ditch via Box Elder Creek drainage. Box Elder Creek's channel capacity is about 50 cfs downstream. Cobb Lake also can release water by exchange to Larimer County Ditch.

At times, Larimer and Weld Irrigation Canal also diverts water from Box Elder Creek in exchange for reduced diversion at their Poudre headgate. Box Elder Creek's flow cannot exceed 50 cfs downstream of Gray Reservoir No 3 due to flood damage.

- **Hansen Supply Canal** (0300909) delivers C-BT water from Horsetooth Reservoir to the Poudre River at the location of the Greeley Filter Pipeline diversion. The canal only delivers water between April 1 and November 1. A new pipeline (**Pleasant Valley Pipeline**) was constructed by NCWCD, the City of Ft. Collins, the City of Greeley, and the Tri-Districts to increase the reliability of the municipal deliveries, as described above under the **C-BT Water and Municipal Use** heading.
- **Greeley Filters Pipeline** (0300908) is the diversion location for Greeley's municipal water source from the Poudre River and their mountain storage reservoirs (Milton Seaman, Barnes Meadows, and other small reservoirs). The water is treated near the diversion at the Bellvue Treatment Plant then conveyed to Greeley through a pipeline. In addition, C-BT water can be delivered to the Bellvue Treatment Plant through the Hansen Supply Canal.

- **Pleasant Valley Lake Canal** (0300910) is one of the “South Side” ditches (also include New Mercer, Larimer County #2, and Arthur Ditches). The majority owner of these ditches is the City of Ft. Collins. They are used to irrigated parks and open space. Pleasant Valley Lake Canal also irrigates crops in the Bellvue area. Pleasant Valley Lake Canal delivers water for storage in Claymore Lake. When the canal is not in priority, water can be released from Claymore Lake (0303780 ~ 1,000 af) to the Poudre in exchange for diversion through the headgate. The “South Side ditches could be modeled together as a diversion-system aggregate.
- **Larimer County Ditch** (0300911) is owned by Water Supply and Storage Company and the City of Thornton and is one of the four “big” players in the basin. The City of Thornton is about a 50 percent owner; however, diversions are currently used for irrigation of historical lands under the ditch. The headgate capacity is approximately 750 cfs. About one-quarter of the ditch diversions are C-BT water. Water Supply and Storage Company is the primary recipient of Grand River Ditch, Laramie-Poudre Tunnel, Cameron Pass Ditch, and Skyline Ditch transbasin imports. Their mountain storage reservoirs are Long Draw Reservoir and Chambers Lake. Diversions through the headgate can be used to fill the following reservoirs:
 - Curtis Reservoir (0303735~1,250). Releases from Curtis Reservoir were historically for Ideal Cement Plant. The plant recently closed down. Releases from Curtis Reservoir cannot be made back into Larimer County Ditch.
 - Water Supply and Storage Reservoir 1 aka Rocky Ridge Reservoir (0303736 ~4,500 af). Releases can be made into Larimer County Ditch when the reservoir is 2/3 or more full.
 - Water Supply and Storage Reservoir 3 (0303737~4,800 af), Water Supply Storage Reservoir 4 (0303739 ~1,400 af), and Kluver Reservoir (0303740 ~1,200 af). Releases from these reservoirs cannot be made directly to the Larimer County Ditch. Releases are made to the Larimer Weld Irrigation Ditch via Dry Creek Ditch (aka Jackson Ditch) and Long Pond.
 - Black Hollow Reservoir (0303744 ~7,500 af). Black Hollow Reservoir is the last storage reservoir and is used as a regulating reservoir for downstream irrigation deliveries.

Irrigation occurs all along the ditch, beginning just north of Curtis Reservoir. About 50 percent of irrigated acreage is downstream of Black Hollow Reservoir. Note that Larimer County Ditch does not divert water during the winter for storage.
- **Dry Creek Ditch aka Jackson Ditch** (0300912) is partially (~25%) owned by Water Supply and Storage and is only used for irrigation, except to convey water to Longs Pond as discussed above.
- **New Mercer Ditch** (0300913) is one of the “South Side” ditches used by the City of Ft. Collins to irrigate parks and open space. It runs side by side with Larimer County Ditch #2 through the City of Ft. Collins. The Mail Creek Ditch lands are also irrigated with New Mercer Ditch diversions. The “South Side ditches could be modeled together as a diversion-system aggregate.
- **Larimer County Ditch #2** (0300914) is one of the “South Side” ditches, used by the City of Ft. Collins to irrigate parks and open space. It runs side by side with Larimer County Ditch #2 through the City of Ft. Collins. Larimer County Ditch #2 also delivers water to Warren Lake. Releases from Warren Lake irrigate Collindale Golf

Course and the grounds at the Hewlett Packard facility. The “South Side ditches could be modeled together as a diversion-system aggregate.

- **Cache La Poudre Ditch, aka Little Cache La Poudre, aka Little Cache** (0300915) diverts water for irrigation. The ditch company is affiliated with the Larimer Weld Irrigation Company. If there is conveyance capacity available, Larimer and Weld Irrigation Company can use the canal to carry direct rights or to fill Larimer Weld Reservoir, aka Terry Lake (0303805 ~8,000 af). Terry Lake is owned by the Divide Canal and Reservoir Company. Note that the City of Ft. Collins has proposed the Dry Creek Project which would use Terry Lake for flood control storage.
- **Taylor Gill Ditch** (0301029) is use for irrigation and recharge. It diverts off the Cache La Poudre Ditch. Diversions for both ditches are measured separately, on the Taylor Canal Ditch, and downstream on the Cache La Poudre Ditch.
- **Fort Collins Irrigation Canal aka Arthurs Ditch** (0300918) is one of the “South Side” ditches used by the City of Ft. Collins to irrigate parks and open space. This is the ditch that goes through the CSU campus. The “South Side ditches could be modeled together as a diversion-system aggregate.
- **Larimer Weld Irrigation Canal** (0300919) is owned by Larimer Weld Irrigation Company and is one of the four “big” players in the basin.
 - During winter and spring, the canal is used to fill Windsor Reservoir, aka Big Windsor (0303738 ~17,700 af).
 - As noted above, water stored in Long Pond can be used by exchange with Water Supply and Storage Company.
 - As noted above, water stored through Poudre Valley Canal in Windsor #8 can be released to Larimer Weld Irrigation Canal via Elder Reservoir and water stored through Poudre Valley Canal in Cobb Lake can be released to Larimer Weld Irrigation Canal via Box Elder Creek.
 - The Larimer Weld Irrigation Company cannot get water from Big Windsor Reservoir. Therefore, the following exchanges take place:
 - Larimer Weld Irrigation Canal diverts water at their headgate when New Cache La Poudre Canal is in priority in exchange for releases from Windsor Reservoir to New Cache La Poudre Canal.
 - Larimer Weld Irrigation Canal diverts New Cache La Poudre Canal’s C-BT shares in exchange for releases from Windsor Reservoir.
 - These exchanges generally take place as soon as Larimer Weld Irrigation Canal’s large decree (571 cfs) is out of priority.
- **Josh Ames Ditch** (0300921) was transferred to the City of Ft. Collins as an alternate point of diversion. The last headgate diversions were recorded in 1971.
- **Lake Canal Ditch** (0300922) is owned by the Lake Canal Company. The Lake Canal Reservoir Company, a sister company, owns the Gray Reservoirs, which have the senior fill right on Box Elder Creek. Gray Reservoirs can release water to Lake Canal Ditch via Box Elder. Note that if model Box Elder, the only thing that needs to be modeled is the filling and releases from Grays Reservoir. Lake Canal is also a share holder in Timnath Reservoir. Water can be released from Timnath Reservoir directly to Lake Canal.

“The Big Exchange”

- **John G Coy Ditch** (0300923) is a senior ditch on the Poudre. It is not diverting its full decree.
- **Chaffee Ditch** (0300925) was transferred to the City of Ft. Collins as an alternate point of diversion. The last headgate diversions were recorded in 1979.
- **Box Elder Ditch** (0300926) water is mostly used for irrigation, and some recharge. Some is used for gravel pit augmentation. The tailwater of the ditch goes to Tarmigan Golf Course and JoDee Reservoir (0303345 ~ 1,600 af), which is owned by Central Colorado Water Conservancy District.
- **Platte River Power Pumping Diversion** (0301203) delivers Rawhide Pipeline (0301378) water rights and City of Ft. Collins Windy Gap return flow credits to the Platte River Power Authority's Rawhide Power Plant and associated reservoir.
- **Fossil Creek Reservoir Feeder Canal** (0300927) delivers water both for storage in Fossil Creek Reservoir (0303774 ~ 11,100 af), and as noted above under **Stream Gages and General Administration**, diverts water physically available from the Poudre up to its full capacity of 150 cfs. Diverted water not in priority or not needed for storage is returned to the Poudre River just upstream of the New Cache La Poudre Canal headgate. There are no active diversions on the Poudre between the Feeder Canal inlet and the Reservoir Outlet return location. Fossil Creek Reservoir is owned and stores water for North Poudre Irrigation Company. In addition, New Cache La Poudre Canal and Canal 3 Ditch also own shares in Fossil Creek Reservoir. North Poudre Irrigation Company use their storage as follows:
 1. Stored water is released for use by New Cache La Poudre Canal in exchange for their C-BT water, taken at the North Poudre Canal headgate or by purchase. Because C-BT water can be taken any time available, this is essentially a "trade" as opposed to an exchange.
 2. North Poudre Irrigation Company will release water from Fossil Creek in exchange for out-of-priority diversion at either their North Poudre Canal or Munroe Canal headgate and out-of-priority storage at Halligan.
- **New Cache La Poudre Canal aka Greeley #2, Cache La Poudre Company Ditch** (0300929) is owned by the New Cache La Poudre Irrigating Company and holds the largest senior water rights of the four "big" players in the basin.
 - These exchanges generally take place as soon as Larimer Weld Irrigation Canal's large decree (571 cfs) is out of priority.
 - Diversion headgate is downstream of Fossil Creek Reservoir outlet canal.
 - Storage water from Timnath Reservoir aka Cache La Poudre Reservoir (0303774 ~ 10,100 af) is released directly into New Cache La Poudre Canal. Storage in Timnath is from the Cache La Poudre Reservoir Inlet Canal aka Timnath Inlet (0300924).
 - Windsor Lake aka Kern Reservoir (0303770 ~ 1464) is used as regulating reservoir for diversions through the New Cache La Poudre Canal. Kern Reservoir has the #1 filling right during the irrigation season for its original decree.
 - Diversion and storage water is used to irrigation lands stretching until east of Greeley.
 - New Cache La Poudre Irrigating Company owns C-BT shares, but generally uses them for exchange.

“The Big Exchange”

- Larimer Weld Irrigation Canal diverts water at their headgate when New Cache La Poudre Canal is in priority in exchange for releases from Windsor Reservoir to New Cache La Poudre Canal.
- Larimer Weld Irrigation Canal diverts New Cache La Poudre Canal’s C-BT shares in exchange for releases from Windsor Reservoir.
- **Whitney Irrigation Ditch** (0300930) irrigates lands between the New Cache La Poudre Canal and the Poudre.
- **BH Eaton Irrigation Ditch** (0300931) irrigates on the South side of the Poudre across the river from the Whitney Irrigation Ditch.
- **William R Jones Ditch** (0300932) irrigates a small amount, but is ¾ or more owned by CCWCD. It is used to fill Seabring Reservoir, a large gravel pit used for augmentation.
- **Canal 3 Ditch aka Greeley #3 aka #3** (0300934) is about 3/8 owned by Greeley. The ditch runs through Greeley and is used to irrigated parks, golf courses, and open spaces. CCWCD also has some ownership, and the ditch is a carrier for augmentation water. There are four return points back to the river that are measured for augmentation – one for CCWCD, one for Greeley, one for both CCWCD and Greeley, and one for New Cache La Poudre Irrigating Company.
- **Boyd Freeman Ditch** (0300935) is the #6 priority in District 3. The ditch has been decreed for exchange by the Cities of Ft. Collins and Greeley. They still divert for some irrigation, but as part of the agreement, cannot call out other diverters.
- **No Ditch** (031373) is owned by Western Sugar Company and no longer diverts. There are no diversion records in HydroBase.
- **Ogilvy Ditch** (0300937) is a very junior right. It can get water from Seeley Lake (0303772 ~ 1,500 af), which it owns and fills through a feeder canal off the Poudre.

Recommended Detailed Documentation

Technical memoranda will be developed and included in the Basin Information Report for each of the systems importing water into District 3, including:

- Wilson Supply Ditch
- Grand River Ditch
- Laramie Poudre Tunnel
- Cameron Pass Ditch
- Skyline Ditch
- Michigan Ditch
- Bob Creek Ditch

More detailed information will be developed and included in the Basin Information Report for the following entities. Note that off-channel reservoirs filled by the larger ditch systems are included with the ditch entity operating memoranda.

- North Poudre Irrigation Company (North Poudre Canal, Halligan Reservoir, Fossil Creek Reservoir)
- City of Greeley (Greeley Filters Pipeline, Milton Seaman Reservoir, Barnes Reservoir)

- City of Ft. Collins (Ft. Collins Pipeline, Joe Wright Reservoir)
- Tri-Districts
- Colorado-Big Thompson's North Delivery System (Horsetooth, Hansen Feeder Canal)
- Water Supply and Storage Company (Larimer County Ditch, Chambers Lake, Long Draw Reservoir)
- Larimer Weld Irrigation Company (Larimer Weld Irrigation Canal)
- New Cache La Poudre Irrigating Company (New Cache La Poudre Canal, Timnath Reservoir)

Table 1

Structure	Name	Total Decree (cfs)	Diversion Record Period	Average Annual Divert (af)	Diversion Source	Comment	Key
0300905	NORTH POUDRE SUPPLY CNL	250.00	'53-'01	34614	CACHE LA POUDRE R		YES
0300906	FORT COLLINS PIPELINE	89.69	'49-'01	9802	CACHE LA POUDRE R		YES
0300907	POUDRE VALLEY CANAL	29.51	'49-'01	16495	CACHE LA POUDRE R		YES
0300909	HANSEN SUPPLY CANAL					Delivery from Horsetooth Reservoir	YES
0300908	GREELEY FLTRS PL	28.00	'49-'01	13010	CACHE LA POUDRE R		YES
0300910	PLEASANT VALLEY LAKE CNL	137.93	'49-'01	14234	CACHE LA POUDRE R	Recommend Diversion-system with Larimer County No 2, New Mercer Ditch, Mail Creek Ditch, and Ft. Collins	DivSys
0300911	LARIMER COUNTY DITCH	750.01	'49-'01	73499	CACHE LA POUDRE R		YES
0300912	DRY CREEK DITCH	50.92	'49-'01	5994	CACHE LA POUDRE R		YES
0300913	NEW MERCER DITCH	85.00	'49-'01	6801	CACHE LA POUDRE R	Recommend Diversion-system with Larimer County No 2, Ft. Collins Irrigation Canal, and Pleasant Valley Lake Canal	DivSys
0300914	LARIMER COUNTY NO 2 D	178.50	'49-'01	8592	CACHE LA POUDRE R	Recommend Diversion-system with Ft. Collins Irrigation Canal, New Mercer Ditch, and Pleasant Valley Lake Canal	DivSys
0305381	WARREN LAKE RES FEED D	23.00			CACHE LA POUDRE R	Water to Warren Lake delivered through Larimer County D 2	NO
0300915	CACHE LA POUDRE DITCH	82.50	'49-'01	12626	CACHE LA POUDRE R		YES
0301029	TAYLOR GILL DITCH	12.17	'49-'01	3018	CACHE LA POUDRE R		YES
0300918	FORT COLLINS IRR CNL	108.73	'49-'01	4975	CACHE LA POUDRE R	Recommend Diversion-system with Larimer County No 2, New Mercer Ditch, and Pleasant Valley Lake Canal	DivSys
0300919	LARIMER WELD IRR CANAL	1047.47	'49-'01	78945	CACHE LA POUDRE R		YES
0300921	JOSH AMES DITCH		'49-'71	1508	CACHE LA POUDRE R	Alternate Point to City of Ft. Collins	YES
0300922	LAKE CANAL DITCH	158.35	'49-'01	12144	CACHE LA POUDRE R		YES
0300923	JOHN G COY DITCH	31.63	'49-'01	1410	CACHE LA POUDRE R		YES
0300924	CACHE LA PODR RES IN CNL	60.00			CACHE LA POUDRE R	Timnath Reservoir Inlet Canal	YES

0300929	NEW CACHE LA POUDRE CO D	649.00	'49-'01	47557	CACHE LA POUDRE R		YES
0300930	WHITNEY IRR DITCH	61.18	'49-'01	11544	CACHE LA POUDRE R		YES
0300931	B H EATON DITCH	41.70	'49-'01	5318	CACHE LA POUDRE R		YES
0300932	WILLIAM R JONES DITCH	15.52	'49-'01	3321	CACHE LA POUDRE R		YES
0300934	CANAL 3 DITCH	174.89	'49-'01	18897	CACHE LA POUDRE R		YES
0300935	BOYD FREEMAN DITCH	54.05	'49-'01	1054	CACHE LA POUDRE R		YES
0300937	OGILVY DITCH	91.06	'49-'01	15229	CACHE LA POUDRE R		YES
0301191	WINDSOR EXT		'96-'01	3919	CACHE LA POUDRE R		NO
0300994	NORTH POUDRE CANAL	715.03	'49-'01	31618	N FK CAC LA POUDRE R		YES
0300997	CHASE DITCH	10.71	'72-'00	215	N FK CAC LA POUDRE R	Doesn't meet minimum divert criteria	NO
0301209	NORTH FK CA LA P DITCH 1	2.00			N FK CAC LA POUDRE R	On Straight Line Diagram - No diversion records	NO
0301038	BURNHAM EMERSON DITCH	26.00	'76-'01	1015	LONE PINE CREEK	Diversion Records for only 3 Ditches on Lone Pine Creek - Don't Model Tributary	NO
0301113	BOXELDER RES CO DITCH	17.50			BOX ELDER CREEK	Only Need to Model Gray Lakes Feeder Ditch if model Box Elder	NO
0301115	BOXELDER CHANNEL DITCH 1	2.50	'54-'79	335	BOX ELDER CREEK	Only Need to Model Gray Lakes Feeder Ditch if model Box Elder	NO
0301116	BOXELDER CHANNEL DITCH L		'68-'01	195	BOX ELDER CREEK	Only Need to Model Gray Lakes Feeder Ditch if model Box Elder	NO
0301117	GRAY LAKES FDR D					Only Need to Model Gray Lakes Feeder Ditch if model Box Elder	NO
0301121	WEBSTER DITCH	5.20	'54-'72	129	BOX ELDER CREEK	Only Need to Model Gray Lakes Feeder Ditch if model Box Elder	NO
0301192	BOXELDER TO LAKE CNL				BOX ELDER CREEK	Only Need to Model Gray Lakes Feeder Ditch if model Box Elder	NO