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WATER FOR UTAH

A Review of Duties and Funding Programs of the Division and Board of Water Resources

January 2015

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BOARD OF WATER RESOURCES

GREEN RIVER DISTRICT

Daggett, Duchesne,
and Uintah Counties

N. GAWAIN SNOW – CHAIR

3700 South Hwy 149
Box 146
Jensen, UT 84035
Phone: 435-790-1780 (cell)
gsnow@uwcd.org

LOWER COLORADO RIVER DISTRICT

Beaver, Garfield, Iron,
Washington, and Kane Counties

JAMES A. LEMMON – VICE CHAIR

233 West 1300 South
Hurricane, UT 84737
Phone: 435-773-7012 (cell)
jslemmon@BuySouthernUtah.com

UPPER COLORADO RIVER DISTRICT

Carbon, Emery, Grand,
and San Juan Counties

CRAIG E. JOHANSEN

15 East 1000 North
P.O. Box 199
Castle Dale, UT 84513
Phone: 435-820-8490 (cell)
craig@jandtengineering.com

PROVO RIVER DISTRICT

Juab, Utah, and
Wasatch Counties

STEVE FARRELL

325 West 500 South
Midway, UT 84049
Phone: 801-541-2974 (cell)
Sbfarrell325@msn.com

BEAR RIVER DISTRICT

Box Elder, Cache, and
Rich Counties

CHARLES HOLMGREN

P.O. Box 187
Bear River City, UT 84301
Phone: 435-279-3303 (cell)
cwholm@frontiernet.net

SEVIER RIVER DISTRICT

Millard, Sanpete,
Sevier, Piute, and
Wayne Counties

ROBERT D. BESSEY

393 South Main Street
Manti, UT 84642
Phone: 435-340-0038 (cell)
rbessey@mail.manti.com

SALT LAKE DISTRICT

Salt Lake and Tooele
Counties

J. STEWART PAULICK

914 Vine Street
Tooele, UT 84074
Phone: 435-830-4196 (cell)
jspaulick@msn.coM

WEBER RIVER DISTRICT

Weber, Davis, Morgan,
and Summit Counties

DAVID S. HUMPHREYS

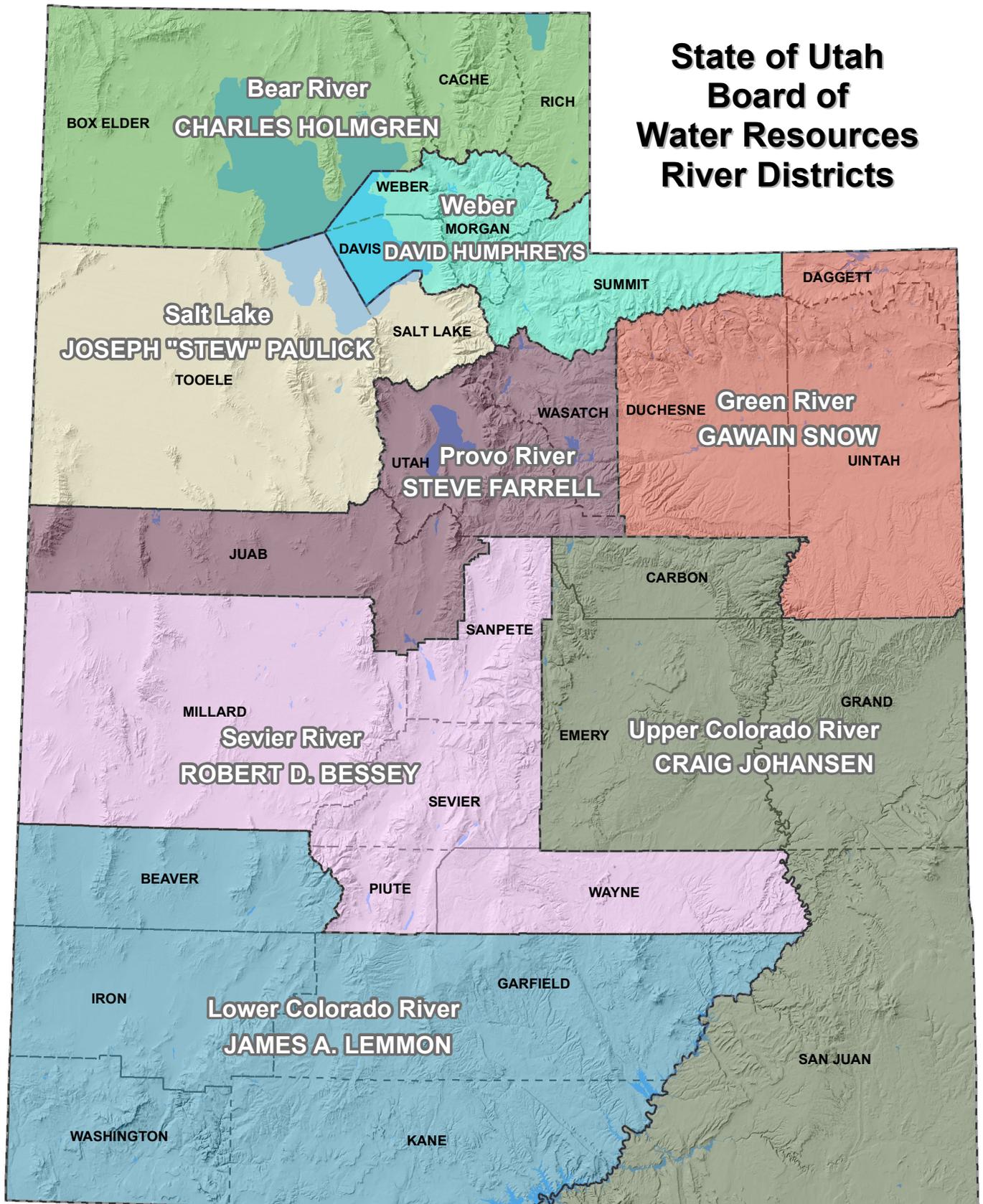
2828 North 975 East
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ERIC L. MILLIS - DIRECTOR

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State of Utah Board of Water Resources River Districts





BOARD/DIVISION OF WATER RESOURCES

Briefing Paper

The Division of Water Resources (Division) is one of seven agencies of the Utah Department of Natural Resources and is the water resources planning and development lead for the State of Utah. The Board of Water Resources (Board) is the policy-making body of the Division.

Legislative Authority

- Protect Utah's rights to interstate waters.
- Provide comprehensive water planning.
- Manage Utah's water resource project construction programs.

Mission

- **The Division of Water Resources plans, conserves, develops, and protects Utah's water resources.**

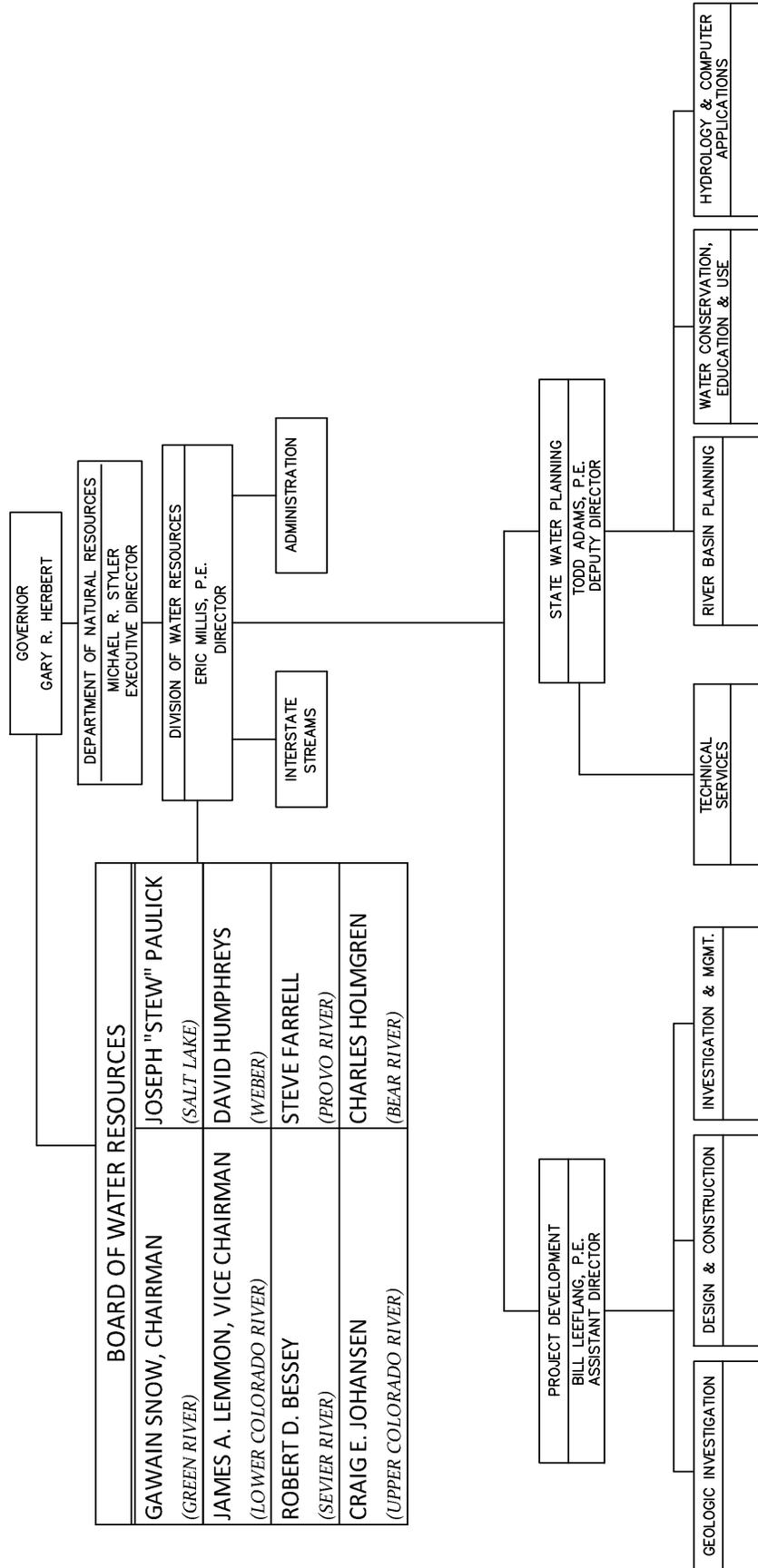
Goals

- Implement water education/conservation programs that encourage wise municipal, industrial, agricultural, and environmental water use.
- Defend and protect Utah's rights to develop and use its entitlement to interstate streams.
- Continue state water planning activities to identify future water needs and assist water entities in meeting those needs.
- Provide technical and financial assistance to encourage the highest beneficial uses of water consistent with economic, social, and environmental consideration.
- Maintain accurate and current water supply and land use data for each hydrologic basin in the state.
- Promote cloud seeding operational projects and research.
- Provide funding for the upgrade of dams to maintain safe reservoir storage and meet current Dam Safety Standards with available funding from the Legislature.



January 2015

DIVISION OF WATER RESOURCES





INTERSTATE STREAMS AND STATE AND FEDERAL RELATIONS

Geography, history and national politics have a profound influence on water management in Utah. Drainage basins covering more than half the state are associated with interstate streams. The water resources of these areas are governed by state water law, as well as interstate compacts. In addition, over two-thirds of the lands of the state are owned and administered by the federal government and federal laws and regulations associated with these lands present unique problems to state water planners and administrators. Increased environmental awareness has generated federal legislation that significantly constrains the formulation and implementation of water-related activities.

The Board, with the approval of the department executive director and the governor, designates a representative of the state of Utah in all interstate conferences and meetings between the state of Utah and one or more basin states held to enter into compacts to divide interstate waters or to discuss interstate streams issues. Eric Millis, the Division of Water Resources (Division) Director serves as Utah's Interstate Streams Commissioner, the governor's representative on Colorado River management issues and is Utah's representative on the Upper Colorado River Commission, and Bear River Commission. In addition the Director serves on the Western States Water Council, Colorado River Basin Salinity Control Forum and Advisory Council, and the Glen Canyon Adaptive Management Work Group.

Because control of much of Utah's water resources is affected by actions of other states and federal agencies, active participation on selected interstate and state/federal bodies is essential to protect Utah's interests.

Upper Colorado River Commission

The states of the Upper Colorado River Basin share approximately six million acre-feet of the waters of the Colorado River. Of the allocation, 50,000 acre-feet of consumptive use is apportioned to Arizona; of the remainder, 51.75% is apportioned to Colorado, 11.25% to New Mexico, 14% to Wyoming, and 23% to Utah. Utah's annual entitlement is estimated to be 1.37 million acre-feet.

The Upper Colorado River Commission was created by the Upper Colorado River Compact of 1948. The Commission has a federal chairman (appointed by the president) and one member from each of the four Upper Division States - Colorado, New Mexico, Utah and Wyoming. Eric Millis is Utah's commissioner and Dallin Jensen serves as the alternate commissioner. In addition, the Board appointed the following advisers to the commission: Don Christiansen, general manager of the Central Utah Water Conservancy District; Kent Jones, State Engineer; Robert King, of the Division; Gawain Snow, general manager of the Uintah Water Conservancy District; and Norman Johnson, Assistant Attorney General.



Bear River Commission

The Bear River Commission is created by a three-state compact between Idaho, Utah and Wyoming; comprised of a federal representative, appointed by the president, and three members from each of the states.

Utah Code specifies that Utah's Interstate Streams Commissioner shall be the chairman of Utah's delegation to the Bear River Commission. In addition, a commissioner from the Bear River Basin (above Bear Lake) and a commissioner from the basin (below Bear Lake) are appointed by the Board with the consent of the Governor. An alternate for each of the two can also be appointed. By law, these four persons must be irrigators and live on irrigated farms located in the basin. The current Utah delegation to the Bear River Commission is composed of Eric Millis, chairman of the Utah delegation; Blair Francis, the Upper Bear River Basin commissioner; and Norman Weston, alternate. Both men live in Rich County. In the Lower Bear River Basin, Charles Holmgren of Box Elder County is the commissioner and Joseph Larsen of Cache County is the alternate. Kent Jones, State Engineer; Norman Johnson, Assistant Attorney General; and Todd Adams of the Division serve as advisers to the Utah commissioners.

Western States Water Council

The Western States Water Council was organized in June 1965 by the governors comprising the Western Governors Conference, with the stated purpose of accomplishing effective cooperation among the western states in planning for programs leading to integrated water resources development by state, federal and other agencies. Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington and Wyoming are members of the council. Because the Western Governors Conference was disbanded and the Western Governors Association (WGA) has been created, the council now reports to the WGA.

The principal function of the Council has been to foster areas of agreement, where the combined strength of western state water officials is able to influence actions of Congress and federal agencies on water policy. The Council has developed a high degree of prestige and is doing a creditable job representing the states and their governors on water matters.

Each state may designate three individuals as Council members and additional alternate members. The appointments are made by the governor, and they serve at his pleasure. Utah's members are currently Norman Johnson (Legal Committee), Eric Millis (Water Resources Committee), and Walt Baker (Executive Committee & Water Quality Committee).

Colorado River Basin Salinity Control Forum and Advisory Council

The salinity concentrations of the waters of the Colorado River have been of major concern to the seven Colorado River Basin States (Utah, Colorado, New Mexico, Wyoming, California, Arizona and Nevada) and Mexico. The salt content of the water has an economic impact on



agricultural and municipal and industrial uses in the Basin. The Salinity Control Forum was created in 1972 with the concurrence of the Governor and the water development and water quality agencies of the seven states. Although it has no specific legislative mandate, the Forum has been very successful as a means of obtaining comity and strong congressional support for salinity control projects.

It is important to the proper function of the Forum that members are professionals from the water development and water quality agencies of state government. Leah Ann Lamb (Division of Water Quality), Gawain Snow (Uintah Water Conservancy District), and Eric Millis are Utah's members of the Forum.

In 1974 Congress passed the Colorado River Salinity Control Project Act, which authorizes funding for salinity control projects. The act also provides for the appointment of three members to an advisory council by each governor of the seven Colorado River basin states. The Council is responsible for advising the Secretary of Interior, the Secretary of Agriculture and the Administrator of the Environmental Protection Agency on salinity matters. The Council meets annually with representatives of Interior and Agriculture departments and the Environmental Protection Agency. Dallin Jensen, Leah Ann Lamb, and Eric Millis serve on this council at the pleasure of the governor.

Governor's Representative on Colorado River Management

Following the 1983 flooding on the Colorado River, the Secretary of the Interior invited each of the seven governors to name a personal representative to negotiate management policies on operations of the reservoir system on the river. Meetings are held frequently between the seven representatives and staff of the Bureau of Reclamation to discuss Colorado Basin issues. Eric Millis is the Governor's representative.

Glen Canyon Adaptive Management Work Group

Created by the Grand Canyon Protection Act of 1992, the Glen Canyon Adaptive Management Program includes a federal advisory committee to make recommendations to the Secretary of the Interior on the operations of Glen Canyon Dam to enhance and protect the downstream environment in the Grand Canyon, while also maintaining the purposes for which Glen Canyon Dam was built. Eric Millis is Utah's representative on the Federal Advisory Committee and Robert King of the Division serves as an alternate on the committee as well as on the technical committee. They help protect Utah's interest in its Colorado River water supply, recreation on Lake Powell, environmental enhancement, and power generation capacity at Glen Canyon Dam.



STATE WATER PLANNING

The Division is responsible to plan for and encourage the use of the state's water resources. To do that, the Division has established the following planning objectives:

- Help local, state and federal agencies coordinate water resources planning and development activities.
- Maintain programs with federal and state agencies to obtain streamflow, climatological, SNOTEL, water quality data, water-related land use and municipal and industrial water use data.
- Develop and maintain river basin models for state planning purposes and operational models for specific project feasibility and development studies.
- Study technologies and methods that will help meet future water resource needs.
- Continue to formulate and maintain both a State Water Plan and basin plans that: (1) identify and quantify existing and projected municipal, industrial, agricultural and environmental water use; (2) identifies and quantifies water supply sources; and (3) identifies how much additional water will be needed and makes recommendations for meeting future needs; (4) identifies and studies water-related topics and issues that must be considered in meeting future water needs.

River Basin Studies

Since completion of the Utah State Water Plan in 1990, the Division has completed 11 detailed basin plans covering the entire state. The plans describe water resource development opportunities and problems in the basins, identify options, and make recommendations for future actions. They also help coordinate the activities of local, state and federal water agencies within the river basins. The Division published an updated statewide plan in 2001 entitled "Utah's Water Resources: Planning for the Future". Updates of the 11 previously published basin plans are done on an as-needed basis. The Bear, Weber, Jordan, and Utah Lake River Basin Plans have been updated and work is being done to update the Uintah Basin and State plans.

Resource Inventories, Computer Modeling and Special Studies

The Division obtains needed data and provides technical modeling and hydrologic analysis for state water planning, water development projects, and coordination with federal and state agencies. Some of the current activities/studies by the planning branch include participation in the Governor's Water Strategy Team efforts and Envision Utah planning process; statewide summaries of water-related land use and municipal and industrial water use; residential per capita water use; and technical models for the Great Salt Lake, Uinta River operation, Lake Fork River, Ashley/Brush Creeks and San Rafael/Muddy Creek simulations. Simulation models of the Bear, Weber, and Virgin rivers are continually updated and used by the Division and managers for water planning.



The Division published water-related land use inventories for two basins and four special study reports: “2010 Statewide Landuse Inventory”, “Municipal and Industrial Water Supply and Use Study Summary 2010”, “Detecting Leaks in Utah’s Municipal Water Systems”, and “Utah’s M&I Water Conservation Plan – Investing in the Future”, plus the Cedar/Beaver Basin and the Kanab Creek/Virgin River Basin land use inventory summaries. It also prepared a final review draft of the statewide State Water Plan and a Public Review Draft of the Utah Lake Basin State Water Plan.

Conservation and Education

The Water Conservation and Education programs are focused on activities and programs to help Utahns reduce the per capita municipal and industrial water use of Utah residents. The division is committed to expand efforts in water conservation and education by:

- a. Providing materials and teacher training in public schools; sponsoring the Utah Waters Van program and the Water Education Poster Contest and Banquet.
- b. Be the lead agency for the Governor’s Water Conservation Team
- c. Working with local water agencies to develop and implement water conservation programs, including education of the general public as to how to use Utah’s water wisely;
- d. Promoting modification of laws, ordinances and regulations to promote efficient water use.

The Division is participating in the ‘Envision Utah – Your Utah, Your Future’ planning process.

Cloud Seeding

Cloud seeding has long been recognized by water professionals as a feasible means to augment the natural water supply. Conditions are especially favorable in Utah where topography, climate and water storage reservoirs make winter snowpack enhancement cost-effective.

Utah enacted weather modification legislation in 1973, and an operational cloud seeding program was funded in 1976. The field program, which usually extends from November to April, is funded jointly by the state and local water interests. Statistical analysis of the cloud seeding program since its beginning shows an average increase in precipitation of 8% to 20% in seeded areas at a cost of about \$2.27 per acre-foot for the additional water.

WATER DEVELOPMENT PROGRAMS

In 1909 the Utah State Legislature approved an "Act to Provide for a Utah State Conservation Commission" to prevent waste of the natural resources in Utah. On March 17, 1921 the Legislature created the Utah Water Storage Commission. Its principal powers and duties were



"to make investigations, looking to a full and proper development and utilization of the state's water supply." That organization continued until March 31, 1941, when the Legislature abolished the Commission and gave its powers and duties to a newly-created Publicity and Industrial Development Department.

The Utah Water and Power Board was created in 1947. At the same time, the Legislature implemented a Revolving Construction Fund to provide financial assistance for the construction of water development and conservation projects. This began the legacy of the state's participation in a self-help water development cooperative effort that continues to function today.

With the creation of the Department of Natural Resources in 1967, the Legislature established the Board of Water Resources (to supersede the Water and Power Board) and the Division of Water Resources to administer the state's responsibilities in water resource matters and act as technical advisor to the Board and Governor. The energy crisis of the 1970s brought rapid growth to many Utah cities. To help local leaders upgrade their culinary water systems, the 1974 Legislature created the Cities Water Loan Fund. Still faced with the need to develop additional water resources and the federal government's withering participation in funding water projects, the 1978 Legislature created a Conservation and Development Fund to help develop large projects.

In 1990 the Dam Safety Act was passed and the Board again was given a new funding responsibility. Dam safety is included in the Revolving Construction Fund and the Board is authorized to provide grants to bring high hazard dams up to current dam safety standards. Grants are provided only when the legislature appropriates money for dam safety grants. The State Engineer classifies all dams into one of three categories: high, moderate, or low hazard. The Board, in concert with the State Engineer, ranks high hazard dams based on their potential to cause loss of life and/or property damage. Grants of at least 80% are given based on the ranking priority and money appropriated.

Beginning in 1947 with the creation of the Water and Power Board, and continuing with the Board of Water Resources, both technical and financial assistance has been provided to public and private entities to more effectively utilize the state's water resources. Since initiation of that policy, the state legislature has appropriated approximately \$365 million for water development. Because the Board requires financial assistance be repaid (hence the term revolving loan program is often used), the Board has provided approximately \$755 million through its Revolving Construction, Cities Water Loan, and Conservation and Development Funds, with a ratio of about \$2.84 in construction for each dollar provided by the Board. Through its Dam Safety Funding Program the Board has provided grants totaling nearly \$66 million and loans totaling nearly \$3 million to bring 35 high hazard dams up to current or partial dam safety standards. Due to lack of funding some dams have been brought to only partial compliance to allow for continued reservoir storage. Funding programs are administered through the Division under the direction of the eight-member Board. The Board and Division are charged with planning for full utilization of the water and power resources of the state. During the past 68 years the Board and Division have been involved in the planning, design, construction, and financing of 1,418 water projects.



BOARD OF WATER RESOURCES

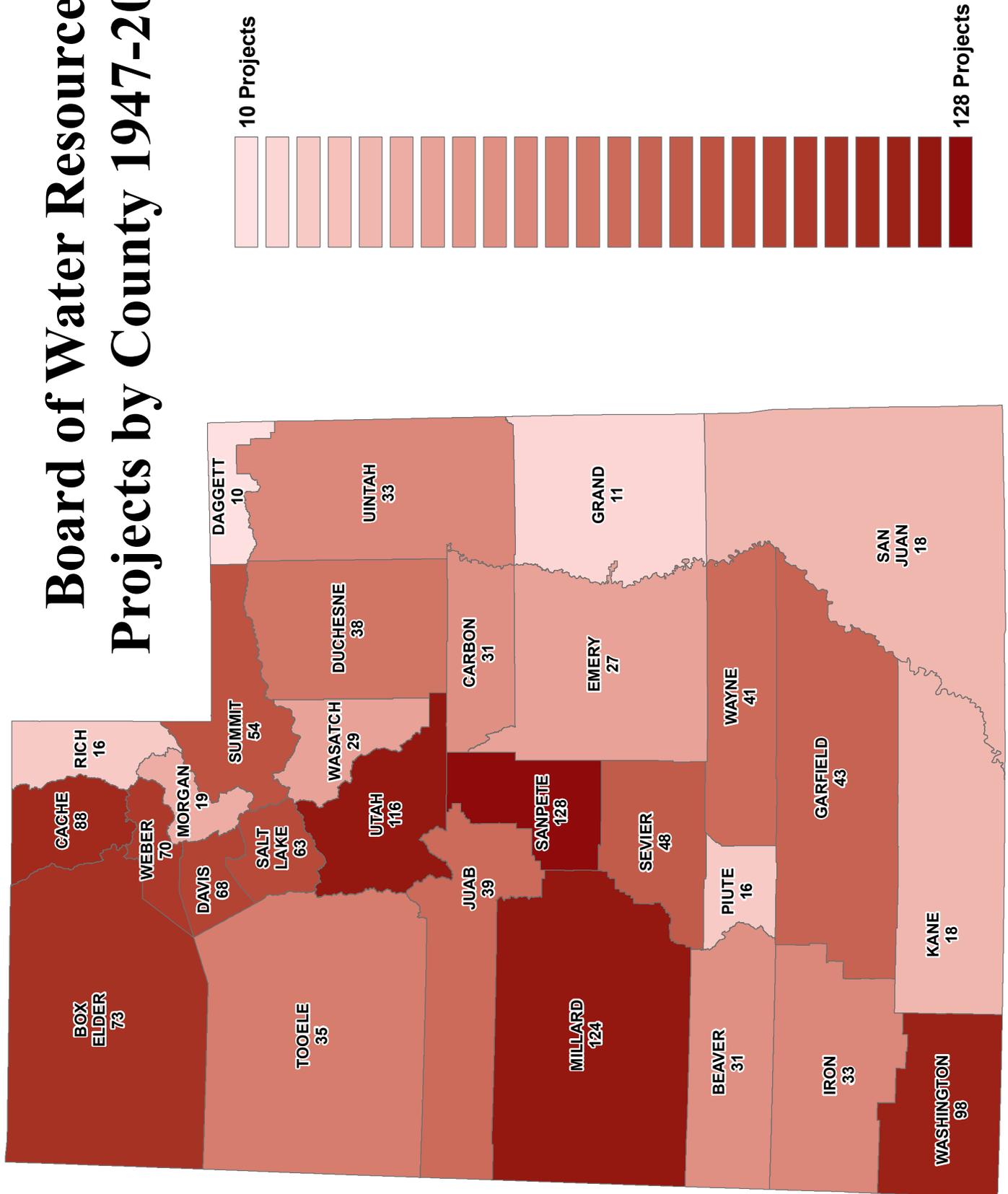
SUMMARY OF PROJECT TYPES

1947- FY 2014

| Projects | Project Type | Board Funds |
|----------|----------------------------------|-----------------------|
| 38 | Dam Safety Construction Projects | \$ 76,493,116 |
| 136 | Dams, Dam Repair, Enlargement | 125,847,240 |
| 59 | Diversion Dams | 6,220,764 |
| 63 | Wells | 3,706,089 |
| 156 | Canals and Canal Linings | 31,424,880 |
| 115 | Pipelines | 104,009,583 |
| 234 | Sprinkler Systems | 87,319,400 |
| 99 | Dual Water Systems | 117,249,788 |
| 454 | Municipal and Domestic Systems | 191,727,237 |
| 64 | Miscellaneous | 10,838,027 |
| 1418 | TOTAL | \$ 754,836,123 |

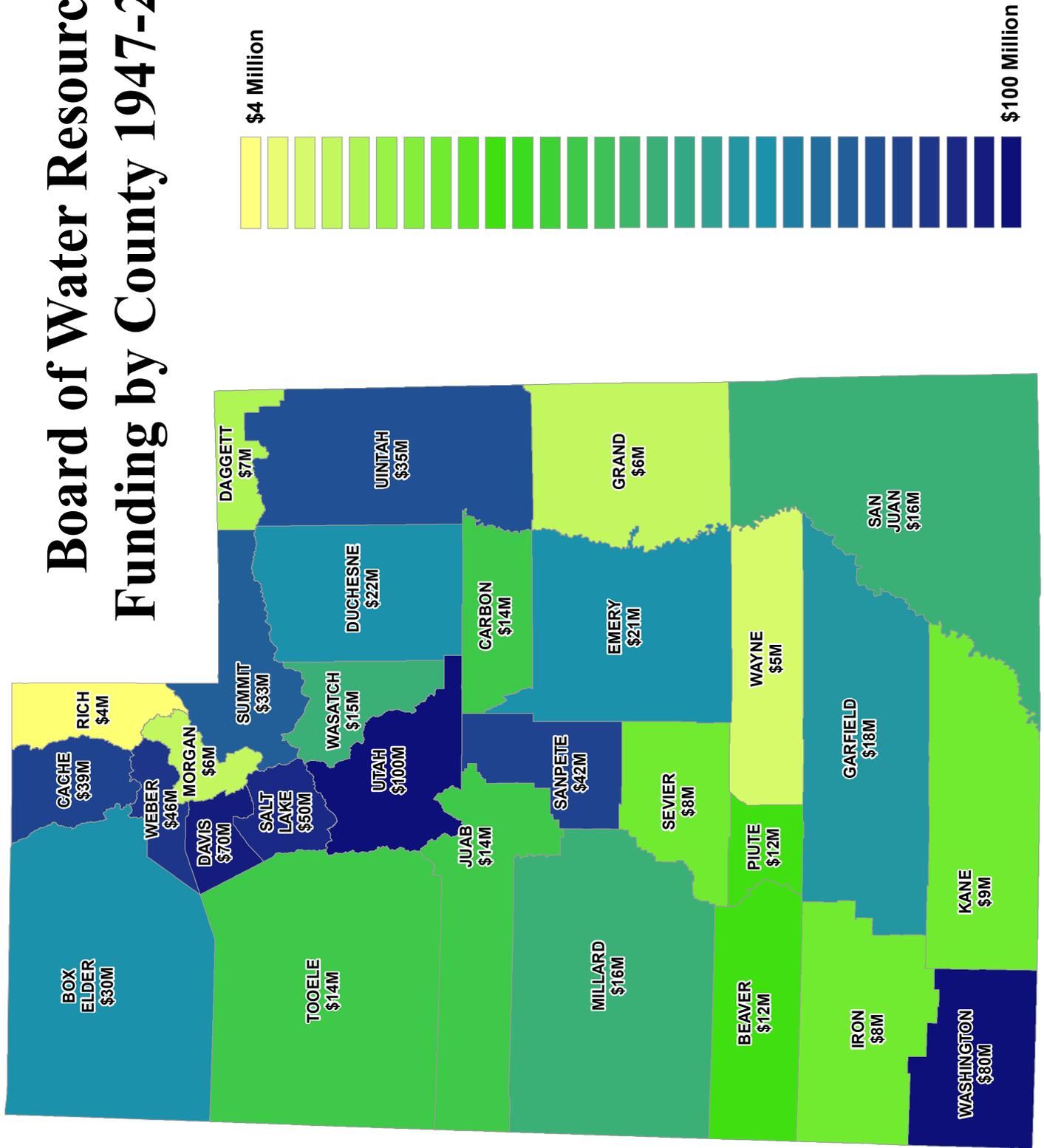


Board of Water Resources Projects by County 1947-2014





Board of Water Resources Funding by County 1947-2014





DAM SAFETY CONSTRUCTION GRANTS

The Board has given nearly \$66 million for dam safety construction grants and nearly \$3 million in loans from the Board's Revolving Construction Fund. The Board has adopted guidelines for making grants to dam owners whose dams require upgrades as a result of the 1990 Dam Safety Act. The Board will provide at least 80% of the cost of upgrades for dam owners that are political subdivisions of the state, water user associations, or nonprofit water companies.

Following is a list of dams that have been upgraded to comply or partially comply with dam safety standards using Board of Water Resources grants and loans. Occasionally, dams are not brought to full compliance due to lack of available Board grant funds. These dams are brought to partial compliance to allow for continued reservoir storage. The list also includes dams under construction or within the final design phase.

Dams are categorized as follows: light blue indicates dams in compliance, dark blue in partial compliance, green under construction, and yellow in the final design phase.



DAM SAFETY UPGRADE PROJECTS WITH BOARD GRANT

As of FY 2014

| # | DAM | USE | OWNER/ORGANIZATION | STATUS |
|----------|-----------------------|------------|---------------------------------|--------------------|
| 1 | ADAMS | IRR | KAYS CREEK IRR. CO. | COMPLY |
| 2 | DRY CANYON | FLOOD | LINDON CITY | COMPLY |
| 3 | ENTERPRISE (UPPER) | IRR | ENTERPRISE RES & CNL CO. | COMPLY |
| 4 | FARMINGTON POND | FLOOD | DAVIS COUNTY | COMPLY |
| 5 | FORSYTH | IRR | FREMONT IRR. CO. | COMPLY |
| 6 | GUNNISON | IRR | GUNNISON IRR. CO. | COMPLY |
| 7 | HOLMES | IRR | HOLMES CREEK IRR. CO. | COMPLY |
| 8 | HUNTINGTON | IRR | HUNTINGTON-CLEVELAND IRR. CO. | COMPLY |
| 9 | IVINS BENCH | IRR | IVINS IRR. CO. | COMPLY |
| 10 | LOGAN 1ST | HYDRO | UTAH STATE UNIVERSITY | COMPLY |
| 11 | LONG PARK | IRR | SHEEP CREEK IRR. CO. | COMPLY |
| 12 | LOYD'S LAKE | MULTI | SAN JUAN WCD | COMPLY |
| 13 | MANDERFIELD | IRR | MANDERFIELD IRR. CO. | COMPLY |
| 14 | MILL HOLLOW | REC | WILDLIFE RESOURCES | COMPLY |
| 15 | MONA | IRR | CURRENT CREEK IRR. CO. | COMPLY |
| 16 | MT DELL | M&I | SALT LAKE CITY | COMPLY |
| 17 | OTTER CREEK | IRR | OTTER CREEK RES. CO. | COMPLY |
| 18 | PANGUITCH LAKE DAM | IRR | WEST PANGUITCH IRR. & RES. CO. | COMPLY |
| 19 | PIUTE | IRR | PIUTE RES. & IRR. CO. | COMPLY |
| 20 | PORCUPINE | IRR | PORCUPINE RES. CO. | COMPLY |
| 21 | RECAPTURE | MULTI | SJWCD | COMPLY |
| 22 | RED CREEK (IRON CO) | IRR | PARAGOONAH CANAL CO. | COMPLY |
| 23 | ROCKY FORD (BEAVER) | IRR | ROCKY FORD IRR. CO. | COMPLY |
| 24 | SEVIER BRIDGE | IRR | CONS. SEVIER BRIDGE CO. | COMPLY |
| 25 | SMITH & MOREHOUSE | MULTI | WEBER BASIN WCD | COMPLY |
| 26 | THISTLE | FLOOD | DEPARTMENT OF NATURAL RESOURCES | COMPLY |
| 27 | THREE CREEKS (BEAVER) | IRR | KENTS LAKE IRR. CO. | COMPLY |
| 28 | TWIN LAKES | IRR | SALT LAKE CITY | COMPLY |
| 29 | WIDE HOLLOW | IRR | NEW ESCALANTE IRR. CO. | COMPLY |
| 30 | BAKER | IRR | BAKER RES. CO. | PARTIAL COMPLY |
| 31 | DMAD | IRR | DMAD CO. | PARTIAL COMPLY |
| 32 | ENTERPRISE (LOWER) | IRR | ENTERPRISE RES. & CANAL CO. | PARTIAL COMPLY |
| 33 | FAIRVIEW LAKE | IRR | COTTONWOOD GOOSEBERRY IRR. CO. | PARTIAL COMPLY |
| 34 | MILL MEADOW | IRR | FREMONT IRR. CO. | PARTIAL COMPLY |
| 35 | MILLER FLAT | IRR | HUNTINGTON-CLEVELAND IRR. CO. | PARTIAL COMPLY |
| 36 | KAYSVILLE | IRR | KAYSVILLE IRR. CO. | CONSTRUCTION FY'14 |
| 37 | RED CREEK | IRR | RED CREEK IRR. CO. | CONSTRUCTION FY'14 |
| 38 | CLIFF LAKE | IRR | OURAY PARK IRR. CO. | DESIGN |
| 39 | MILLSITE | IRR | FERRON RES. & CANAL CO | DESIGN |
| 40 | SILVER LAKE FLAT | IRR | NORTHERN UTAH WCD | DESIGN |



BOARD OF WATER RESOURCES

REVOLVING CONSTRUCTION FUND

**Interim Funding Status FY 2015
As of January 8, 2015**

Funds Available for Projects This FY \$ 10,080,000

Projects Contracted This FY

| | | | | |
|---|------|---------|------------------|---------------------|
| 1 Manderfield Irr and Res Co (additional funds) | C043 | ** | \$ 8,000 | |
| 2 Manderfield Irr and Res Co (additional funds) | C043 | **Grant | 72,000 | |
| 3 Red Creek Irrigation Co (additional funds) | C045 | ** | 347,000 | |
| 4 Red Creek Irrigation Co | C045 | **Grant | <u>3,122,000</u> | |
| Total Funds Contracted | | | | \$ 3,549,000 |
| Funds Balance | | | | <u>\$ 6,531,000</u> |

Projects with Funds Committed

| | | | | |
|---------------------------|------|--|----------------|---------------------|
| 1 Rockville Town Ditch Co | E313 | | \$ 145,000 | |
| 2 Marion Waterworks Co | E322 | | <u>247,000</u> | |
| Total Funds Committed | | | | \$ 392,000 |
| Funds Balance | | | | <u>\$ 6,139,000</u> |

Projects Authorized

| | | | | |
|-------------------------------|------|----------|----------------|----------------|
| 1 Paragoonah Canal Co | E258 | | \$ 530,700 | |
| 2 Paragoonah Canal Co | E258 | ** Grant | 75,700 | |
| 3 Bullion Creek Irrigation Co | E172 | | 113,000 | |
| 4 Salem Pond Co | E329 | | 93,000 | |
| 5 Red Creek Irrigation Co | E356 | | <u>430,000</u> | |
| Total Funds Authorized | | | | \$ 1,242,000 |
| Remaining Funds Available | | | | # \$ 4,897,000 |

** Dam Safety Projects

End of year balance if all listed projects were fully paid



BOARD OF WATER RESOURCES

CITIES WATER LOAN FUND

**Interim Funding Status FY 2015
As of January 8, 2015**

| | | |
|---|------|------------------|
| Funds Available for Projects This FY | | \$ 8,855,000 |
| Bonds Closed This FY | | |
| 1 None | | \$ - |
| Total Bonds Closed | | \$ - |
| Funds Balance | | \$ 8,855,000 |
| Projects with Funds Committed | | |
| 1 None | | \$ - |
| Total Funds Committed | | \$ - |
| Funds Balance | | \$ 8,855,000 |
| Projects Authorized | | |
| 1 Weber-Box Elder Conservation District | E326 | \$ 1,445,000 |
| 2 Duchesne County WCD | E334 | 3,000,000 |
| 3 Herriman City | E344 | <u>4,930,000</u> |
| Total Funds Authorized | | \$ 9,375,000 |
| Remaining Funds Available | | # \$ (520,000) |

End of year balance if all listed projects were fully paid



BOARD OF WATER RESOURCES

CONSERVATION & DEVELOPMENT FUND

**Interim Funding Status FY 2015
As of January 8, 2015**

Funds Available for Projects This FY **\$ 52,245,000**

Projects Contracted/Bonds Closed This FY

| | | |
|---|------|----------------------|
| 1 Cub River Irrigation Co | E339 | \$ 3,825,000 |
| 2 Gunnison Irrigation Co | E350 | 540,000 |
| 3 Kays Creek Irrigation Co (additional funds) | E268 | 830,000 |
| 4 McArthur Frandsen Ditch Co | E348 | 850,000 |
| 5 North Summit Pressurized Irrigation Co | E297 | 3,910,000 |
| 6 Settlement Canyon Irrigation Co (Phase 1) | E240 | 891,400 |
| 7 Westfield Irrigation Co | E335 | <u>1,254,000</u> |
| Total Funds Contracted/Closed | | <u>\$ 12,100,000</u> |
| Funds Balance | | <u>\$ 40,145,000</u> |

Projects with Funds Committed

| | | |
|--|------|----------------------|
| 1 Saratoga Springs City | L574 | \$ 87,000 |
| 2 Newton Water Users Assoc | E280 | 3,060,000 |
| 3 Parowan City | E319 | 3,464,000 |
| 4 Cottonwood Creek Consolidated Irr Co | E325 | <u>1,340,000</u> |
| Total Funds Committed | | <u>\$ 7,951,000</u> |
| Funds Balance | | <u>\$ 32,194,000</u> |

Projects Authorized

| | | |
|--|------|----------------------|
| 1 Brooklyn Canal Co | E223 | \$ 1,000,000 |
| 2 Fremont Irrigation Co | E279 | 8,177,000 |
| 3 Summit Creek Irrigation and Canal Co (Phase 3) | E308 | 1,700,000 |
| 4 Uintah WCD | E316 | 36,550,000 |
| 5 Lake Creek Irrigation Co | E333 | 3,275,000 |
| 6 Richmond Irrigation Co | E347 | 3,700,000 |
| 7 Green River Canal Company | E353 | 1,200,000 |
| 8 Holmes Creek Irr Co | E327 | 731,000 |
| 9 Manti City Creek Water Users Mutal Assoc. | E342 | 1,606,000 |
| 10 Cache Highline Water Association | E351 | 1,600,000 |
| 11 Dry Gulch Irrigation Company | E357 | 1,037,000 |
| 12 Weber Basin WCD (Phase 4+) | E225 | <u>17,000,000</u> |
| Total Funds Authorized | | <u>\$ 77,576,000</u> |
| Remaining Funds Available | | # \$ (45,382,000) |

End of year balance if all listed projects were fully paid



BOARD OF WATER RESOURCES

Additional Future Funding Needs

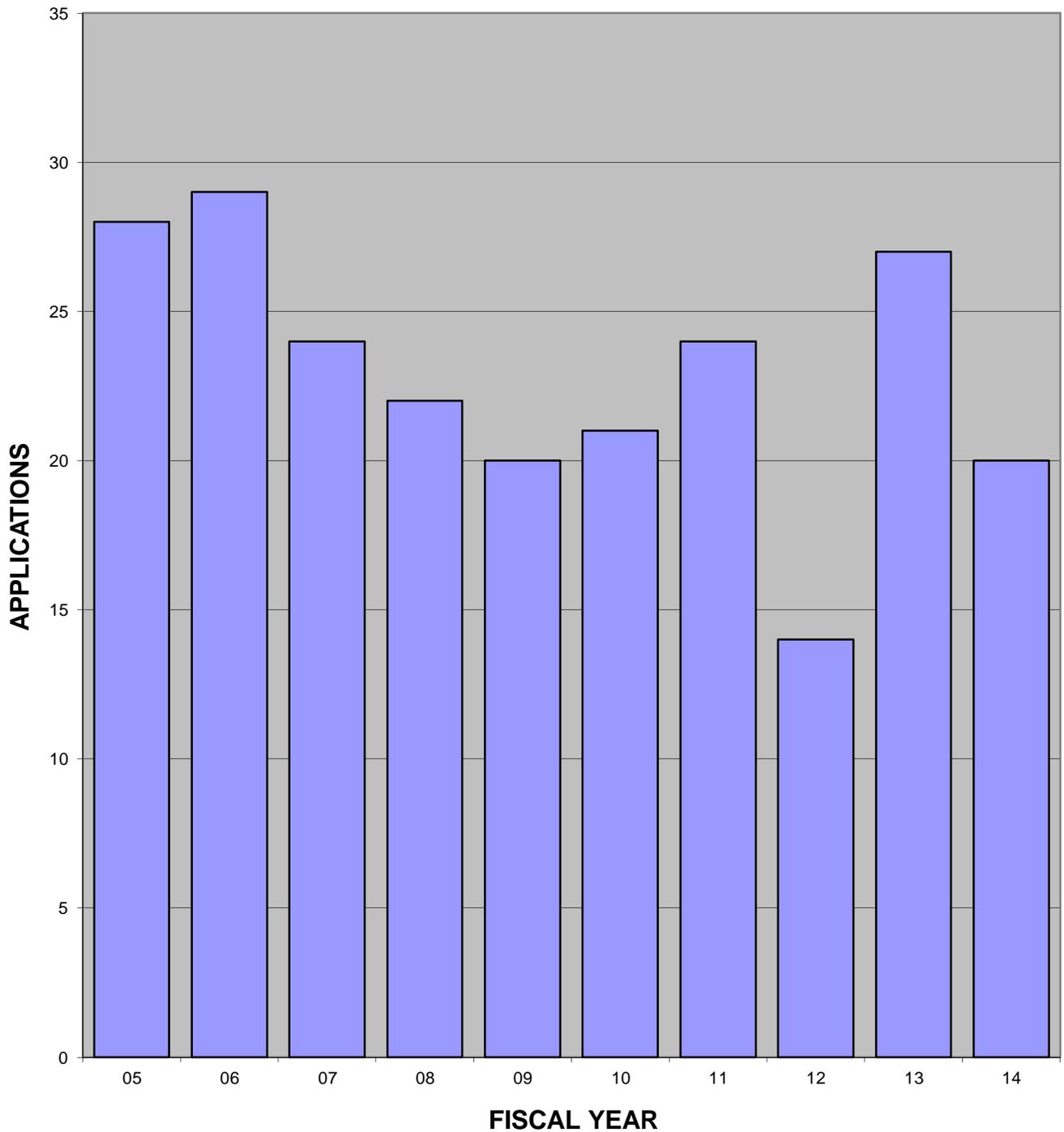
Interim Funding Status FY 2015

As of January 8, 2015

| Projects | No. | Fund | County | Est. Board Cost | Total Cost |
|---|---------|------|-----------|-------------------|-------------------|
| 1 Corinne City | E216 | C&D | Box Elder | \$85,000 | \$ 100,000 |
| 2 South Willard Water Co | E317 | C&D | Box Elder | 1,700,000 | 2,000,000 |
| 3 Davis & Weber Counties Cnl Co (Secondary) | E215R6 | C&D | Davis | 2,593,000 | 3,050,000 |
| 4 Ferron Canal & Res Co | E320 | C&D | Emery | 2,720,000 | 3,200,000 |
| 5 Barton-LeFevre-Tebbs Co | E229 | RCF | Garfield | 553,000 | 650,000 |
| 6 Parowan City (Bond Ins Grant) | E121 | C&D | Iron | 34,000 | 2,034,000 |
| 7 East Juab County WCD | E071 | C&D | Juab | 425,000 | 500,000 |
| 8 Juab Lake Irrigation Co | E324 | C&D | Juab | 510,000 | 600,000 |
| 9 Kane County WCD | D828 | C&D | Kane | 1,700,000 | 2,000,000 |
| 10 Kingston Irr Water Co | E169 | RCF | Piute | 85,000 | 240,000 |
| 11 Sanpete WCD (Narrows Dam) | D377 | C&D | Rich | 29,325,000 | 34,500,000 |
| 12 Woodruff Irrigating Co | D680 | C&D | Rich | 680,000 | 800,000 |
| 13 San Juan WCD | E198 | C&D | San Juan | 3,400,000 | 4,000,000 |
| 14 Duchesne County Water Conservancy District | E358 | C&D | Sanpete | 99,000 | 116,000 |
| 15 Ephraim Irrigation Co | E352 | C&D | Sanpete | 3,145,000 | 3,700,000 |
| 16 Fountain Green Co-op Well | E328 | RCF | Sanpete | 255,000 | 300,000 |
| 17 Fountain Green Irr Co (Flow Augment) | E186 | RCF | Sanpete | 85,000 | 100,000 |
| 18 La Sal Irrigation Co | E354 | C&D | Sanpete | 1,530,000 | 1,800,000 |
| 19 Moon Lake Water Users Association | E362 | C&D | Sanpete | 1,382,000 | 3,250,000 |
| 20 New Fayette Irrigation Company | E360 | C&D | Sanpete | 850,000 | 1,000,000 |
| 21 Pineview West Water Company | E355 | RCF | Sanpete | 383,000 | 450,000 |
| 22 Silver Creek Irrigation Co | E349 | RCF | Sanpete | 150,000 | 325,000 |
| 23 Uintah and Whiterocks River Commission | E359 | C&D | Sanpete | 47,000 | 55,000 |
| 24 Westview Irr Co | E265 | RCF | Sanpete | 128,000 | 150,000 |
| 25 Westview Irr Co | E310 | RCF | Sanpete | 170,000 | 200,000 |
| 26 Weber Basin WCD | E312 | C&D | Summit | 85,000,000 | 100,000,000 |
| 27 Ouray Park Irrigation Co | E343 | C&D | Uintah | 850,000 | 1,000,000 |
| 28 Fremont Irr Co | E131 | C&D | Wayne | 1,700,000 | 2,000,000 |
| 29 Co-op Farm Irrigation Co | E340 | RCF | Weber | 159,000 | 187,000 |
| 30 Hooper Irr Co (Press Irr, Ph 3+) | E060R3+ | C&D | Weber | 11,033,000 | 12,980,000 |
| 31 Weber Basin WCD (Secondary, Ph 3-5) | E029R3+ | C&D | Weber | <u>27,178,000</u> | <u>28,900,000</u> |
| Total | | | | \$177,954,000 | \$ 210,187,000 |



BOARD OF WATER RESOURCES Applications Received





**BOARD OF WATER RESOURCES
Projects Funded in FY 2014**

| Sponsor | | Board Funds |
|--|--------------------|----------------------|
| Revolving Construction Fund | | |
| Bryner-Ploutz Ditch Co | E336 | \$ 103,000 |
| Hatch Irrigation Co | E318 | 90,000 |
| Joseph & Cove Highline Canal Co | E330 | 43,000 |
| Kanab Irrigation Co | E345 | 75,000 |
| Moon Lake Water Users Association | E309 | 340,000 |
| Moon Lake Water Users (additional funds) | E309 | 220,000 |
| North Jordan Irrigation Co | E337 | 420,000 |
| Northwest Irrigation Co | E321 | 412,000 |
| RCF Subtotal | <u>8</u> | \$ 1,703,000 |
| Revolving Construction Fund (Dam Safety) | | |
| Baker Reservoir Co | C046 Loan | \$ 30,000 |
| Baker Reservoir Co | C046 Grant | 270,000 |
| Baker Reservoir Co - Dam Safety Study | G156 Grant | 37,500 |
| Cottonwood Gooseberry Irrigation Co | C041 Loan | 285,000 |
| Cottonwood Gooseberry Irrigation Co | C041 Grant | 2,315,000 |
| Fremont Irrigation Co (additional funds) | C019 Loan | 10,000 |
| Fremont Irrigation Co (additional funds) | C019 Grant | 90,000 |
| Kaysville Irrigation Co | C044 Grant | 2,200,000 |
| Manderfield Irrigation and Reservoir Co | C043 Loan | 161,000 |
| Manderfield Irrigation and Reservoir Co | C043 Grant | 1,319,000 |
| Red Creek Irrigation Co (Phase 1) | C045 Loan | 300,000 |
| Dam Safety Subtotal | <u>11</u> | \$ 7,017,500 |
| RCF TOTAL | <u>19</u> | \$ 8,720,500 |
| Cities Water Loan Fund | | |
| None | | \$ - |
| CWL TOTAL | <u>0</u> | \$ - |
| Conservation & Development Fund | | |
| Cottonwood Creek Consolidated Irr Co | E325 | \$ 1,160,000 |
| Dry Gulch Irrigation Co (Class D & E, add'l funds) | E285 | 829,000 |
| Gunnison Irrigation Co | E346 | 710,000 |
| Huntsville Irrigation Co (additional funds) | E306 | 650,000 |
| Levan Irrigation Co (additional funds) | E314 | 366,000 |
| Mountain Green Secondary Water Co | E284 | 1,785,000 |
| North Ogden Irrigation Co (additional funds) | E323 | 135,000 |
| Ouray Park Irrigation Co | C047 | 1,000,000 |
| Pleasant Grove City (Bond Insurance Grant) | E331 | 33,800 |
| Summit Creek Irrigation and Canal Co (Phase 2) | E308 | 680,000 |
| Wellsville-Mendon Conservation District | E338 | 159,000 |
| C&D Subtotal | <u>11</u> | \$ 7,507,800 |
| C&D Lake Powell/Bear River Studies | | |
| Lake Powell Pipeline (Amend) | | \$ - |
| Lake Powell/Bear River Subtotal | <u>0</u> | \$ - |
| C&D TOTAL | <u>11</u> | \$ 7,507,800 |
| Contracts | 30 | \$ 16,228,300 |
| | GRAND TOTAL | \$ 16,228,300 |



**BOARD OF WATER RESOURCES
APPROPRIATIONS/SALES TAX REVENUES
Through FY 2014**

| <u>YEAR</u> | <u>CONSTRUCTION</u> | <u>CITY LOANS</u> | <u>C & D FUND</u> | <u>TOTAL</u> |
|--------------|----------------------|---------------------|-----------------------|----------------------|
| 1947 - 1949 | \$1,000,000 | | | \$1,000,000 |
| 1951 - 1953 | 500,000 | | | 500,000 |
| 1953 - 1955 | 250,000 | | | 250,000 |
| 1955 - 1957 | 500,000 | | | 500,000 |
| 1957 - 1959 | 1,000,000 | | | 1,000,000 |
| 1959 - 1961 | 750,000 | | | 750,000 |
| 1963 - 1965 | 1,000,000 | | | 1,000,000 |
| 1965 - 1967 | 900,000 | | | 900,000 |
| 1967 - 1969 | 576,000 | | | 576,000 |
| 1969 - 1970 | 300,000 | | | 300,000 |
| 1970 - 1971 | 392,000 | | | 392,000 |
| 1971 - 1972 | 400,000 | | | 400,000 |
| 1972 - 1973 | 1,000,000 | | | 1,000,000 |
| 1973 - 1974 | 1,500,000 | | | 1,500,000 |
| 1974 - 1975 | 1,000,000 | \$2,000,000 | | 3,000,000 |
| 1975 - 1976 | 1,000,000 | 0 | | 1,000,000 |
| 1976 - 1977 | 1,500,000 | 3,500,000 | | 5,000,000 |
| 1977 - 1978 | 5,394,400 | 1,778,000 | | 7,172,400 |
| 1978 - 1979 | 0 | 2,000,000 | \$25,000,000 | 27,000,000 |
| 1979 - 1980 | 2,390,000 | 1,901,343 | 25,000,000 | 29,291,343 |
| 1980 - 1981 | 1,000,000 | 1,000,000 | 0 | 2,000,000 |
| 1981 - 1982 | 500,000 | 1,000,000 | 0 | 1,500,000 |
| 1982 - 1983 | 500,000 | 3,000,000 | 20,000,000 | 23,500,000 |
| 1983 - 1984 | 5,500,000 | 2,500,000 | 0 | 8,000,000 |
| 1984 - 1985 | 0 | 1,086,800 | 0 | 1,086,800 |
| 1985 - 1986 | 2,000,000 | 1,250,000 | 3,000,000 | 6,250,000 |
| 1986 - 1987 | 0 | 50,000 | 0 | 50,000 |
| 1987 - 1988 | 0 | 0 | 0 | 0 |
| 1988 - 1989 | 0 | 500,000 | 0 | 500,000 |
| 1989 - 1990 | 0 | 0 | 14,643,429 | 14,643,429 |
| 1990 - 1991 | 0 | 0 | 0 | 0 |
| 1991 - 1992 | 0 | 0 | 5,800,000 | 5,800,000 |
| 1992 - 1993 | 300,000 * | 0 | 4,236,000 | 4,536,000 |
| 1993 - 1994 | 185,000 * | 0 | 398,200 | 583,200 |
| 1994 - 1995 | 1,300,000 * | 0 | 589,500 | 1,889,500 |
| 1995 - 1996 | 0 | 0 | 2,489,500 | 2,489,500 |
| 1996 - 1997 | 3,200,000 * | 0 | 2,256,500 | 5,456,500 |
| 1997 - 1998 | 4,363,000 * | 0 | 5,239,500 | 9,602,500 |
| 1998 - 1999 | 4,363,000 * | 0 | 6,039,500 | 10,402,500 |
| 1999 - 2000 | 4,363,000 * | 0 | 5,989,500 | 10,352,500 |
| 2000 - 2001 | 4,363,000 * | 0 | 5,989,500 | 10,352,500 |
| 2001 - 2002 | 4,363,000 * | 0 | 4,789,500 | 9,152,500 |
| 2002 - 2003 | 3,349,100 * | 0 | 439,700 | 3,788,800 |
| 2003 - 2004 | 4,339,100 * | 0 | 4,418,200 | 8,757,300 |
| 2004 - 2005 | 4,339,100 * | 0 | 4,418,200 | 8,757,300 |
| 2005 - 2006 | 4,339,100 * | 0 | 4,418,200 | 8,757,300 |
| 2006 - 2007 | 4,339,100 * | 0 | 12,924,666 ** | 17,263,766 |
| 2007 - 2008 | 4,339,100 * | 0 | 21,089,993 *** | 25,429,093 |
| 2008 - 2009 | 739,100 * | -3,600,000 | -464,007 ** | -3,324,907 |
| 2009 - 2010 | 3,800,000 * | 0 | 15,875,685 ** | 19,675,685 |
| 2010 - 2011 | 3,800,000 * | 0 | 10,199,092 ** | 13,999,092 |
| 2011 - 2012 | 3,800,000 * | 0 | 11,992,342 ** | 15,792,342 |
| 2012 - 2013 | 3,800,000 * | 0 | 13,574,671 ** | 17,374,671 |
| 2013 - 2014 | 3,800,000 * | 0 | 14,604,025 ** | 18,404,025 |
| TOTAL | \$102,436,100 | \$17,966,143 | \$244,951,397 | \$365,353,640 |

* Appropriations for Dam Safety Program totalling \$71,583,700
 ** Includes (Sales Tax) for Lake Powell Pipeline/Bear River Development
 *** Includes \$7.9m for Brigham City also

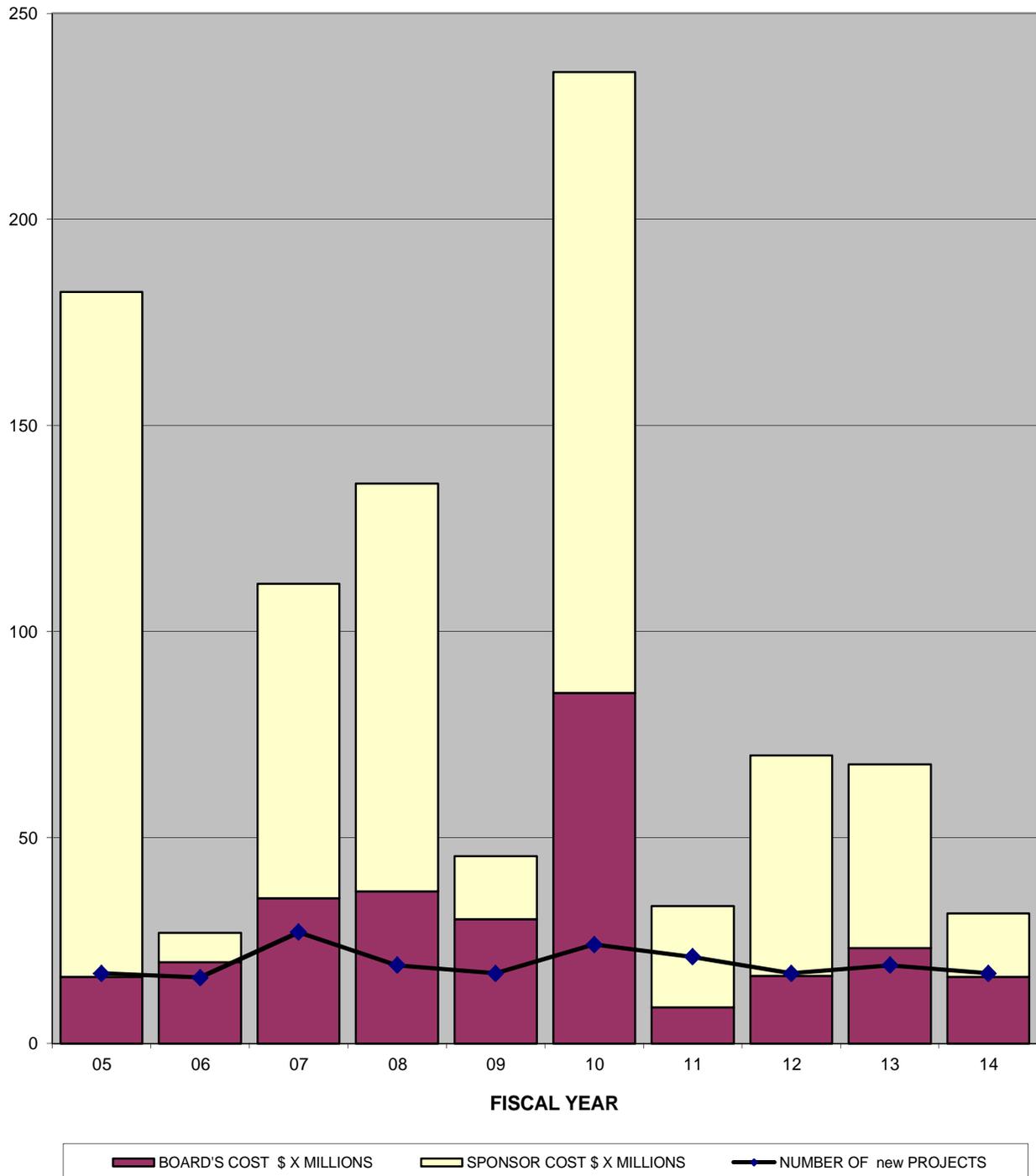


BOARD OF WATER RESOURCES
 Summary of Funds Invested in Water Development from 1947 through FY 2014

| COUNTY | C&D | | | CWI | | | RCF | | | Total Sum of BOARD \$ | Total Sum of TOTAL \$ | Total PROJECTS |
|--------------------|-----------------------|-------------------------|------------|----------------------|-----------------------|------------|-----------------------|-----------------------|------------|-----------------------|-------------------------|----------------|
| | BOARD \$ | TOTAL \$ | PROJECTS | BOARD \$ | TOTAL \$ | PROJECTS | BOARD \$ | TOTAL \$ | PROJECTS | | | |
| BEAVER | \$ 2,079,000 | \$ 3,425,461 | 3 | \$ 690,000 | \$ 827,000 | 3 | \$ 9,542,000 | \$ 11,488,230 | 25 | \$ 12,311,000 | \$ 15,740,691 | 31 |
| BOX ELDER | \$ 19,313,413 | \$ 22,336,005 | 9 | \$ 6,510,500 | \$ 12,552,734 | 21 | \$ 4,643,397 | \$ 6,505,909 | 43 | \$ 30,467,310 | \$ 41,394,648 | 73 |
| CACHE | \$ 16,093,271 | \$ 39,169,993 | 21 | \$ 7,472,985 | \$ 15,916,061 | 23 | \$ 15,551,722 | \$ 27,895,001 | 44 | \$ 39,117,978 | \$ 82,981,055 | 88 |
| CARBON | \$ 8,935,000 | \$ 25,299,828 | 8 | \$ 4,273,000 | \$ 11,552,685 | 9 | \$ 881,182 | \$ 1,533,083 | 14 | \$ 14,089,182 | \$ 38,385,596 | 31 |
| DAGGETT | \$ - | \$ - | 0 | \$ 471,300 | \$ 893,300 | 3 | \$ 6,944,329 | \$ 14,271,954 | 7 | \$ 7,415,629 | \$ 15,165,254 | 10 |
| DAVIS | \$ 52,948,277 | \$ 95,673,525 | 28 | \$ 7,293,105 | \$ 31,446,362 | 20 | \$ 9,797,435 | \$ 11,620,010 | 20 | \$ 70,038,817 | \$ 138,739,898 | 68 |
| DUCHESNE | \$ 10,278,448 | \$ 22,744,499 | 5 | \$ 4,533,000 | \$ 15,967,507 | 13 | \$ 7,218,350 | \$ 11,427,199 | 20 | \$ 22,029,798 | \$ 50,139,205 | 38 |
| EMERY | \$ 9,506,324 | \$ 65,350,567 | 7 | \$ 1,556,000 | \$ 3,964,110 | 6 | \$ 9,783,151 | \$ 33,835,243 | 14 | \$ 20,845,475 | \$ 103,149,921 | 27 |
| GARFIELD | \$ 4,676,869 | \$ 5,527,558 | 7 | \$ 1,162,000 | \$ 2,613,533 | 6 | \$ 12,111,039 | \$ 19,814,920 | 30 | \$ 17,949,908 | \$ 27,956,011 | 43 |
| GRAND | \$ 4,996,016 | \$ 5,011,289 | 5 | \$ 817,240 | \$ 2,031,655 | 2 | \$ 357,594 | \$ 594,740 | 4 | \$ 6,170,850 | \$ 7,637,684 | 11 |
| IRON | \$ 2,644,552 | \$ 5,056,064 | 4 | \$ 2,350,317 | \$ 7,374,040 | 10 | \$ 2,599,596 | \$ 3,714,220 | 19 | \$ 7,594,465 | \$ 16,144,324 | 33 |
| JUAB | \$ 4,920,718 | \$ 13,794,160 | 4 | \$ 654,000 | \$ 1,451,863 | 3 | \$ 8,660,126 | \$ 10,388,537 | 32 | \$ 14,234,844 | \$ 25,634,560 | 39 |
| KANE | \$ 6,059,793 | \$ 15,289,952 | 3 | \$ 1,828,000 | \$ 2,314,886 | 5 | \$ 1,490,434 | \$ 2,437,560 | 10 | \$ 9,378,227 | \$ 20,042,398 | 18 |
| MILLARD | \$ - | \$ - | 0 | \$ 2,295,300 | \$ 7,313,125 | 13 | \$ 13,808,523 | \$ 17,378,218 | 111 | \$ 16,103,823 | \$ 24,691,343 | 124 |
| MORGAN | \$ 4,446,579 | \$ 5,107,920 | 3 | \$ 300,000 | \$ 656,000 | 1 | \$ 1,523,122 | \$ 2,401,678 | 15 | \$ 6,269,701 | \$ 8,165,598 | 19 |
| PIUTE | \$ - | \$ - | 0 | \$ - | \$ - | 0 | \$ 12,108,420 | \$ 13,575,638 | 16 | \$ 12,108,420 | \$ 13,575,638 | 16 |
| RICH | \$ 580,000 | \$ 811,044 | 2 | \$ 217,000 | \$ 847,864 | 3 | \$ 3,438,834 | \$ 4,615,382 | 11 | \$ 4,235,834 | \$ 6,274,290 | 16 |
| SALT LAKE | \$ 39,809,500 | \$ 475,230,719 | 25 | \$ 3,691,549 | \$ 33,376,982 | 6 | \$ 6,119,911 | \$ 15,952,257 | 32 | \$ 49,620,960 | \$ 524,559,959 | 63 |
| SAN JUAN | \$ 11,093,842 | \$ 16,668,330 | 3 | \$ 552,000 | \$ 1,572,522 | 3 | \$ 4,702,084 | \$ 7,914,054 | 12 | \$ 16,347,926 | \$ 26,154,906 | 18 |
| SANPETE | \$ 16,471,964 | \$ 27,648,235 | 20 | \$ 5,245,700 | \$ 16,842,291 | 15 | \$ 20,185,732 | \$ 29,568,093 | 93 | \$ 41,903,395 | \$ 74,058,619 | 128 |
| SEVIER | \$ 2,523,000 | \$ 3,431,500 | 4 | \$ 1,393,700 | \$ 2,361,731 | 8 | \$ 4,111,449 | \$ 6,614,397 | 36 | \$ 8,028,149 | \$ 12,407,628 | 48 |
| SUMMIT | \$ 15,554,108 | \$ 64,270,784 | 10 | \$ 12,016,703 | \$ 17,422,458 | 16 | \$ 5,514,015 | \$ 12,702,129 | 28 | \$ 33,084,825 | \$ 94,395,372 | 54 |
| TOOLE | \$ 10,648,860 | \$ 20,589,014 | 4 | \$ 433,000 | \$ 1,621,000 | 3 | \$ 3,057,565 | \$ 5,066,144 | 28 | \$ 14,139,425 | \$ 27,276,158 | 35 |
| UINTAH | \$ 22,190,989 | \$ 41,852,086 | 8 | \$ 1,454,000 | \$ 4,433,816 | 4 | \$ 11,490,042 | \$ 16,564,305 | 21 | \$ 35,135,031 | \$ 62,852,207 | 33 |
| UTAH | \$ 89,221,791 | \$ 277,159,620 | 25 | \$ 5,093,334 | \$ 44,341,671 | 17 | \$ 5,675,241 | \$ 9,590,267 | 74 | \$ 99,990,366 | \$ 331,091,557 | 116 |
| WASATCH | \$ 11,204,199 | \$ 14,039,903 | 6 | \$ - | \$ - | 0 | \$ 3,338,895 | \$ 4,668,123 | 23 | \$ 14,543,094 | \$ 18,708,026 | 29 |
| WASHINGTON | \$ 63,695,004 | \$ 162,587,329 | 30 | \$ 4,686,500 | \$ 14,622,446 | 17 | \$ 11,798,569 | \$ 16,069,867 | 51 | \$ 80,180,073 | \$ 193,279,642 | 98 |
| WAYNE | \$ 310,000 | \$ 390,000 | 1 | \$ 80,000 | \$ 390,000 | 1 | \$ 4,859,190 | \$ 8,280,752 | 39 | \$ 5,249,190 | \$ 9,060,752 | 41 |
| WEBER | \$ 37,611,085 | \$ 104,016,930 | 27 | \$ 2,876,000 | \$ 6,731,990 | 8 | \$ 5,765,342 | \$ 7,752,893 | 35 | \$ 46,252,427 | \$ 118,501,813 | 70 |
| Grand Total | \$ 467,812,602 | \$ 1,532,482,317 | 272 | \$ 79,946,233 | \$ 261,441,631 | 239 | \$ 207,077,289 | \$ 334,240,804 | 907 | \$ 754,836,124 | \$ 2,128,164,752 | 1,418 |



BOARD OF WATER RESOURCES PROJECTS FUNDED

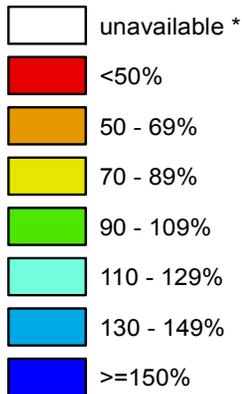




Utah SNOTEL Current Snow Water Equivalent (SWE) % of Normal

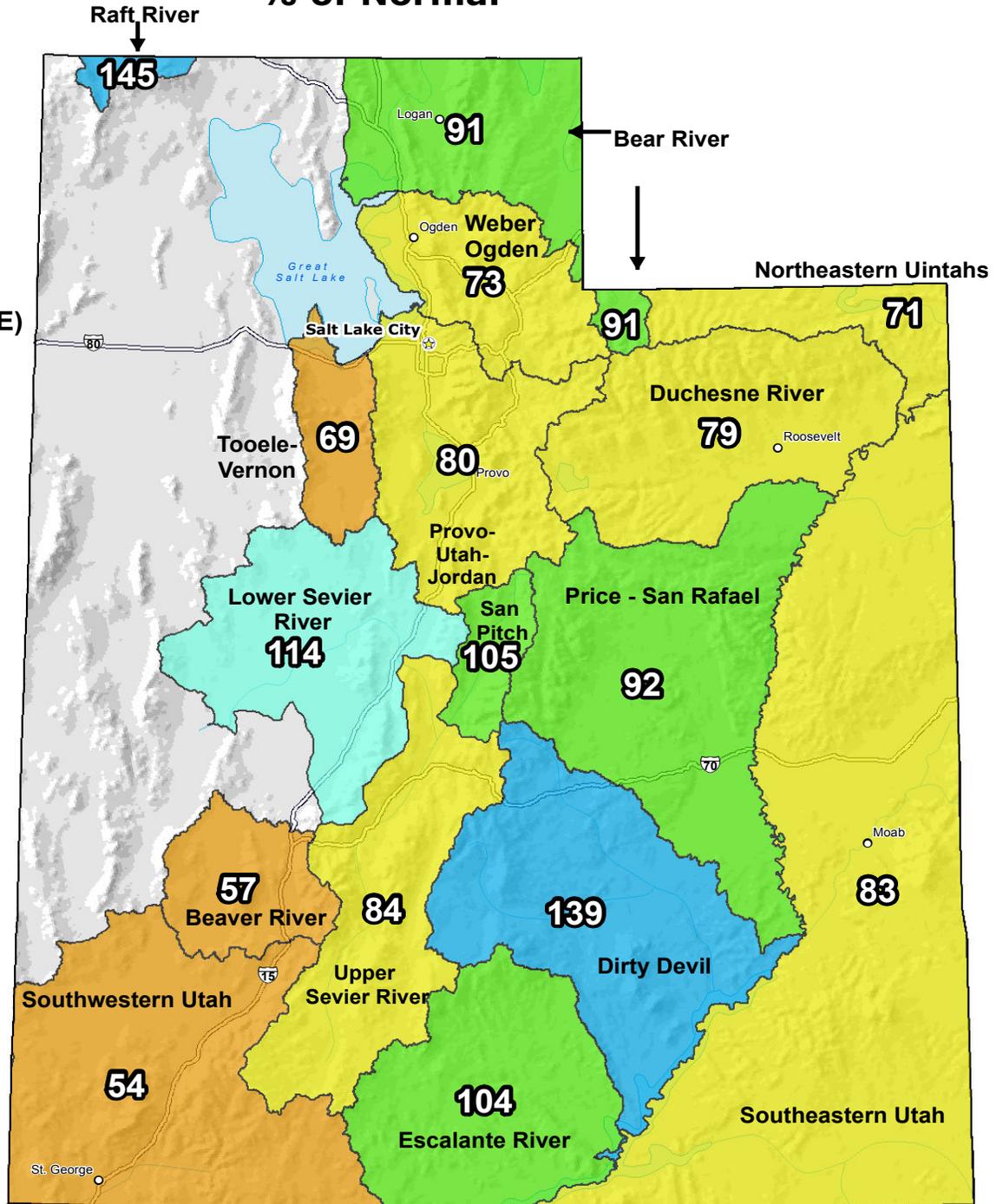
Jan 28, 2015

Snow Water Equivalent (SWE) Basin-wide Percent of 1981-2010 Median



* Data unavailable at time of posting or measurement is not representative at this time of year

**Provisional Data
Subject to Revision**



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

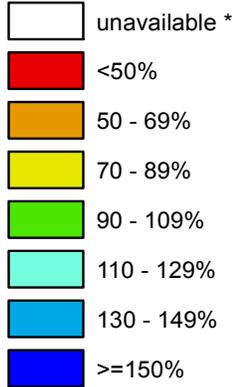
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>



Utah SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal

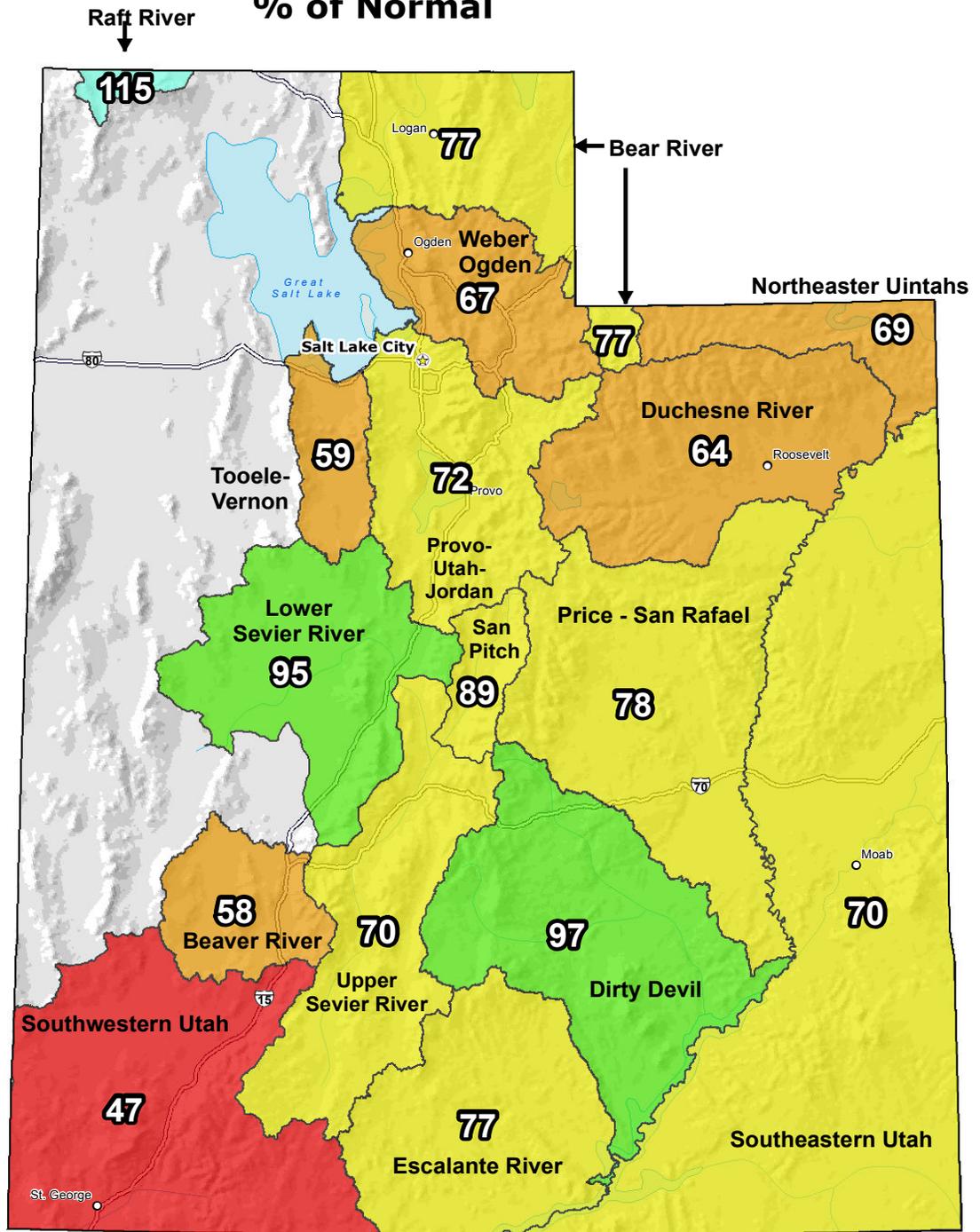
Jan 28, 2015

**Water Year
(Oct 1) to Date
Precipitation
Basin-wide
Percent of
1981-2010
Average**



* Data unavailable at time of posting or measurement is not representative at this time of year

**Provisional Data
Subject to Revision**

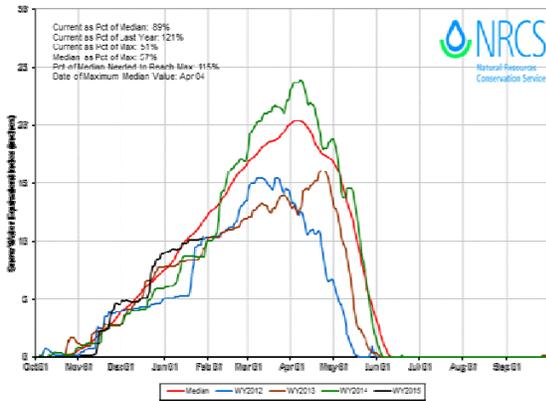


The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

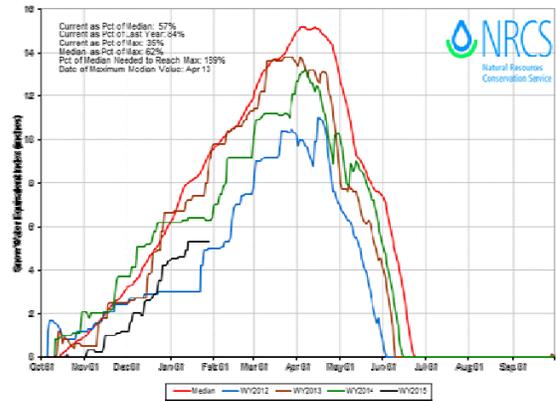
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>



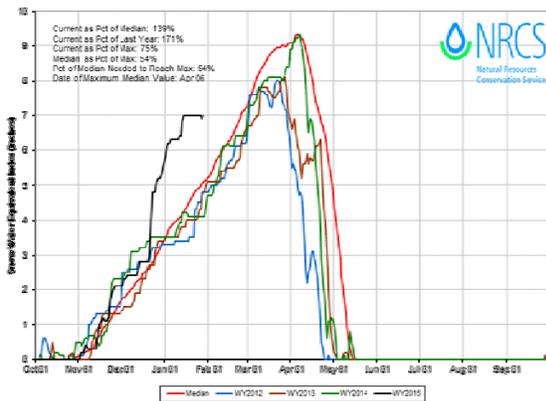
Bear River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



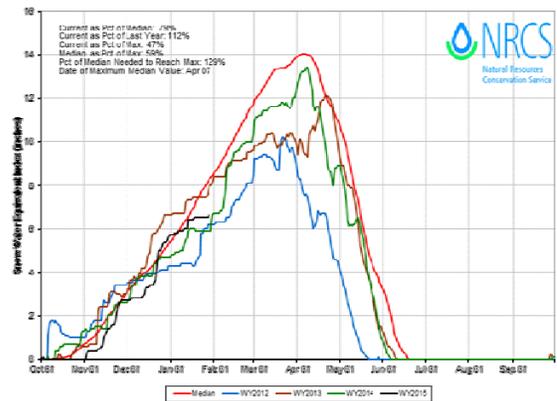
Beaver River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



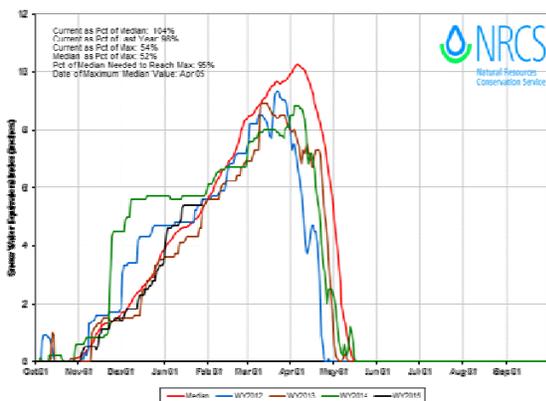
Dirty Devil Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



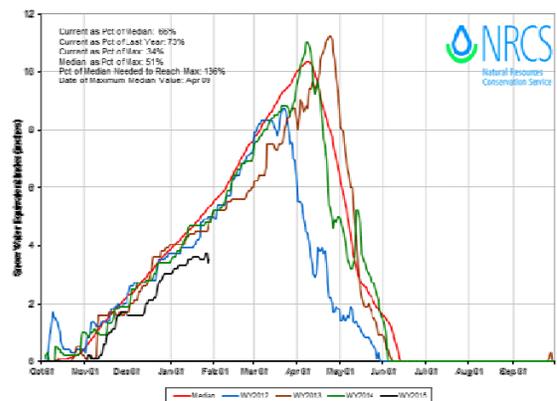
Duchesne River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



Escalante River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015

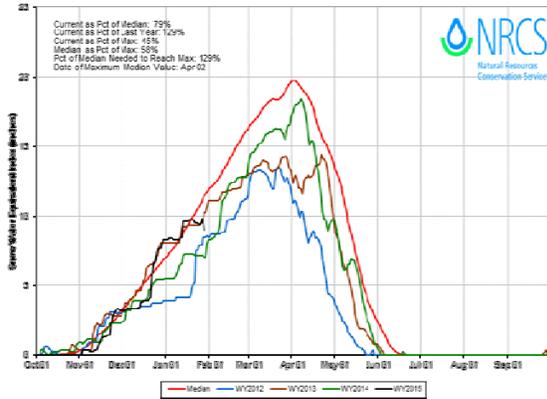


Green River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015

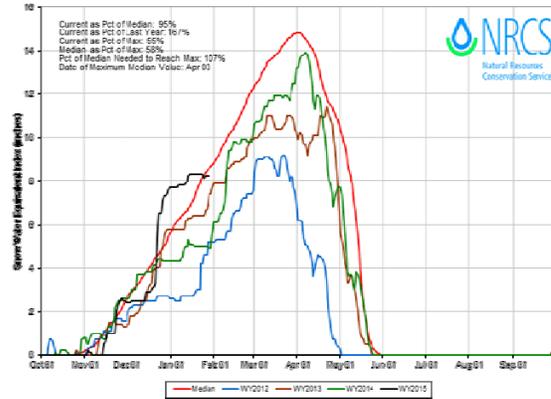




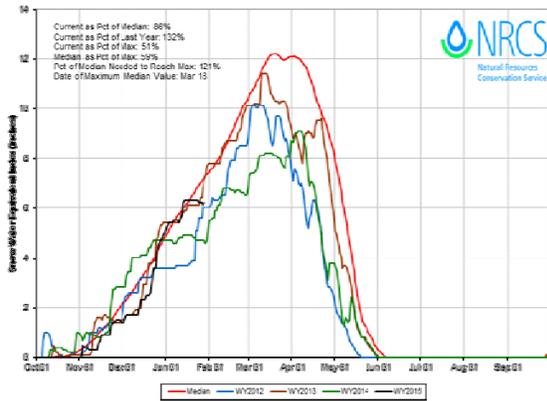
Provo R. - Utah Lake - Jordan R. Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



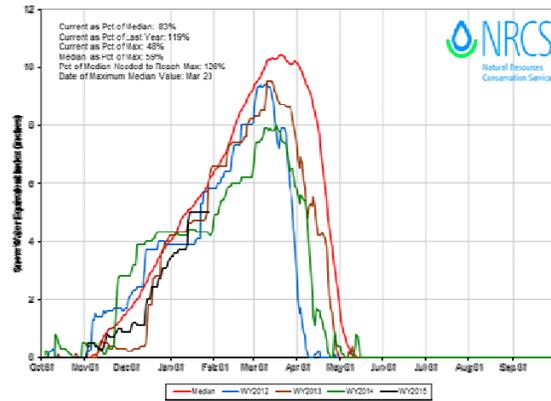
Price - San Rafael River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



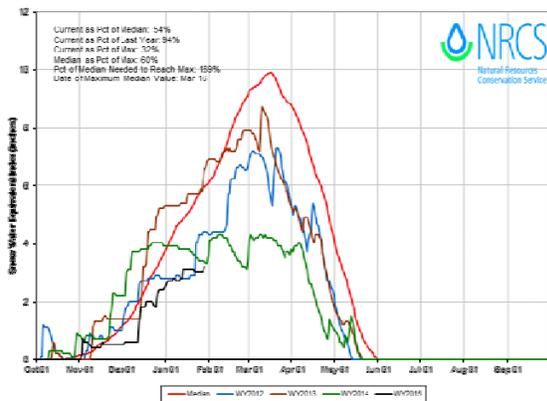
Sovier River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



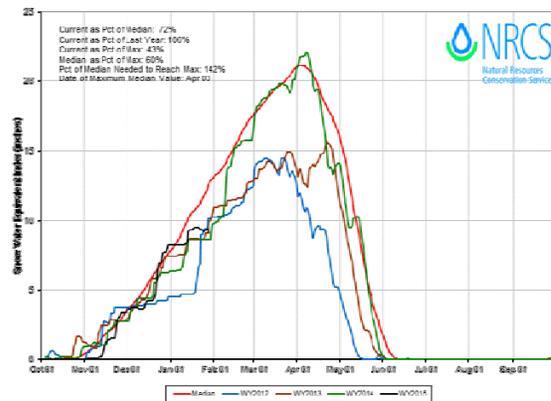
Southeastern Utah Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



Virgin River Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015

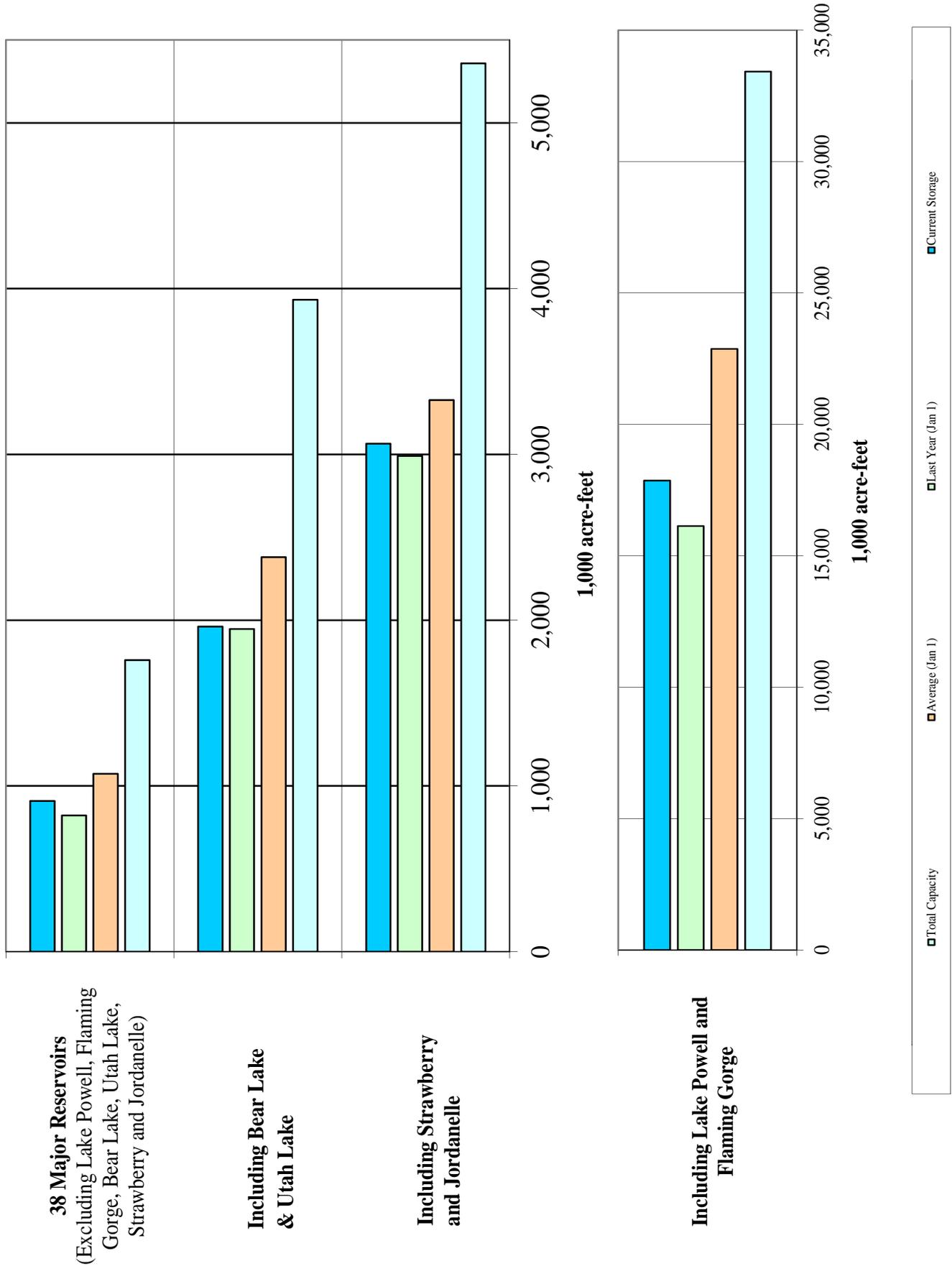


Weber-Ogden Rivers Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 28, 2015



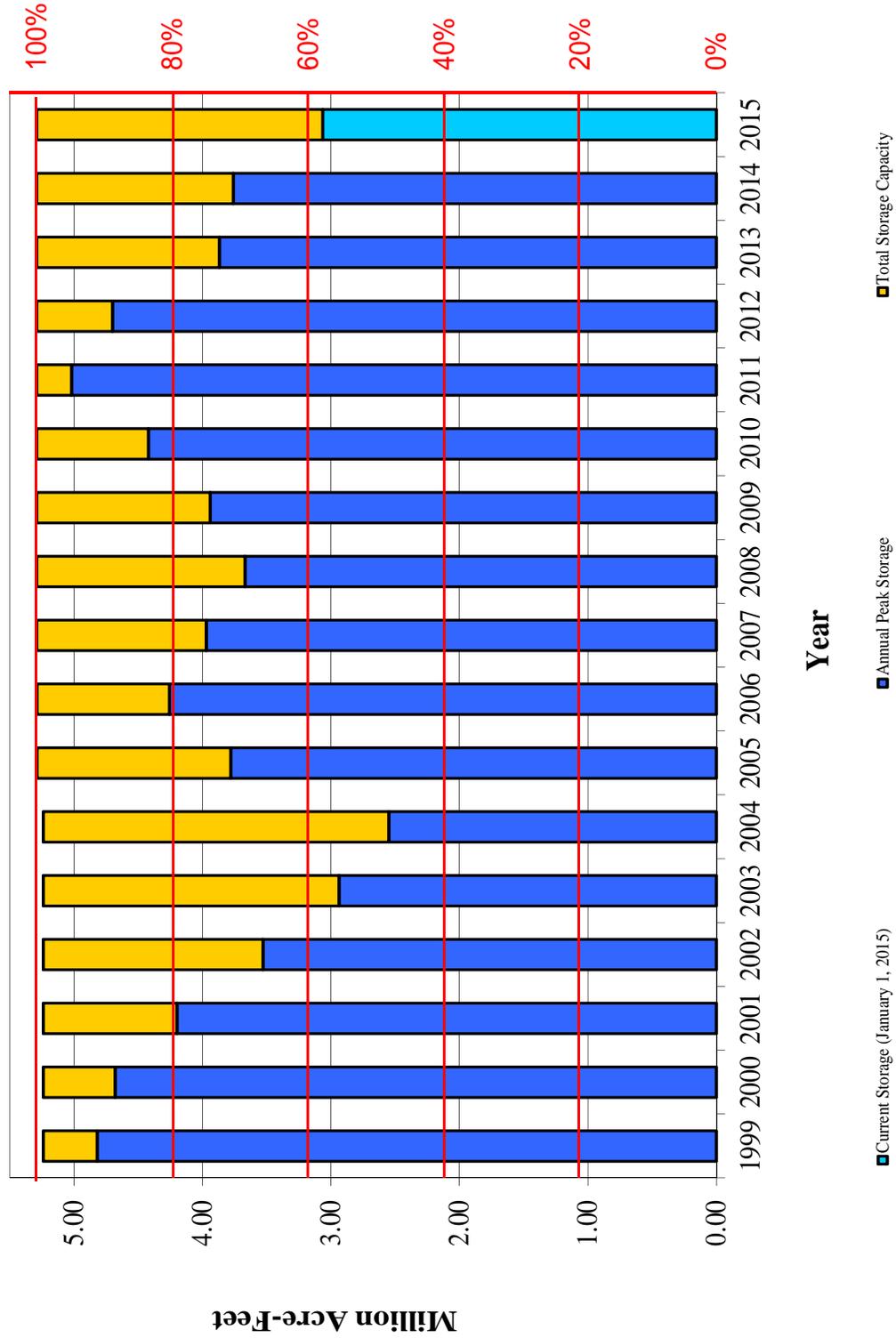


Statewide Reservoir Storage (January 1, 2015)

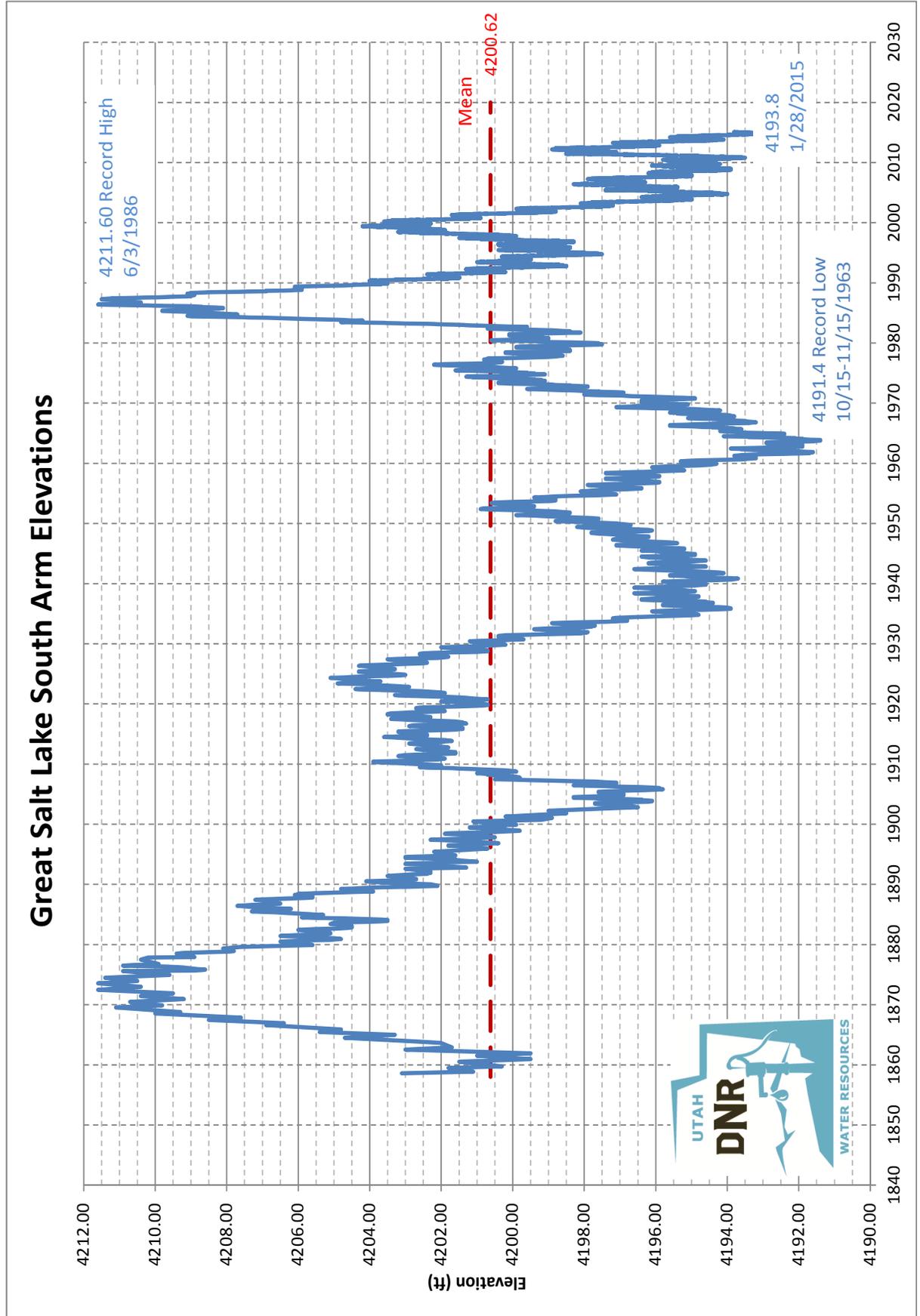




Utah's Major Storage Reservoirs (January 1, 2015)

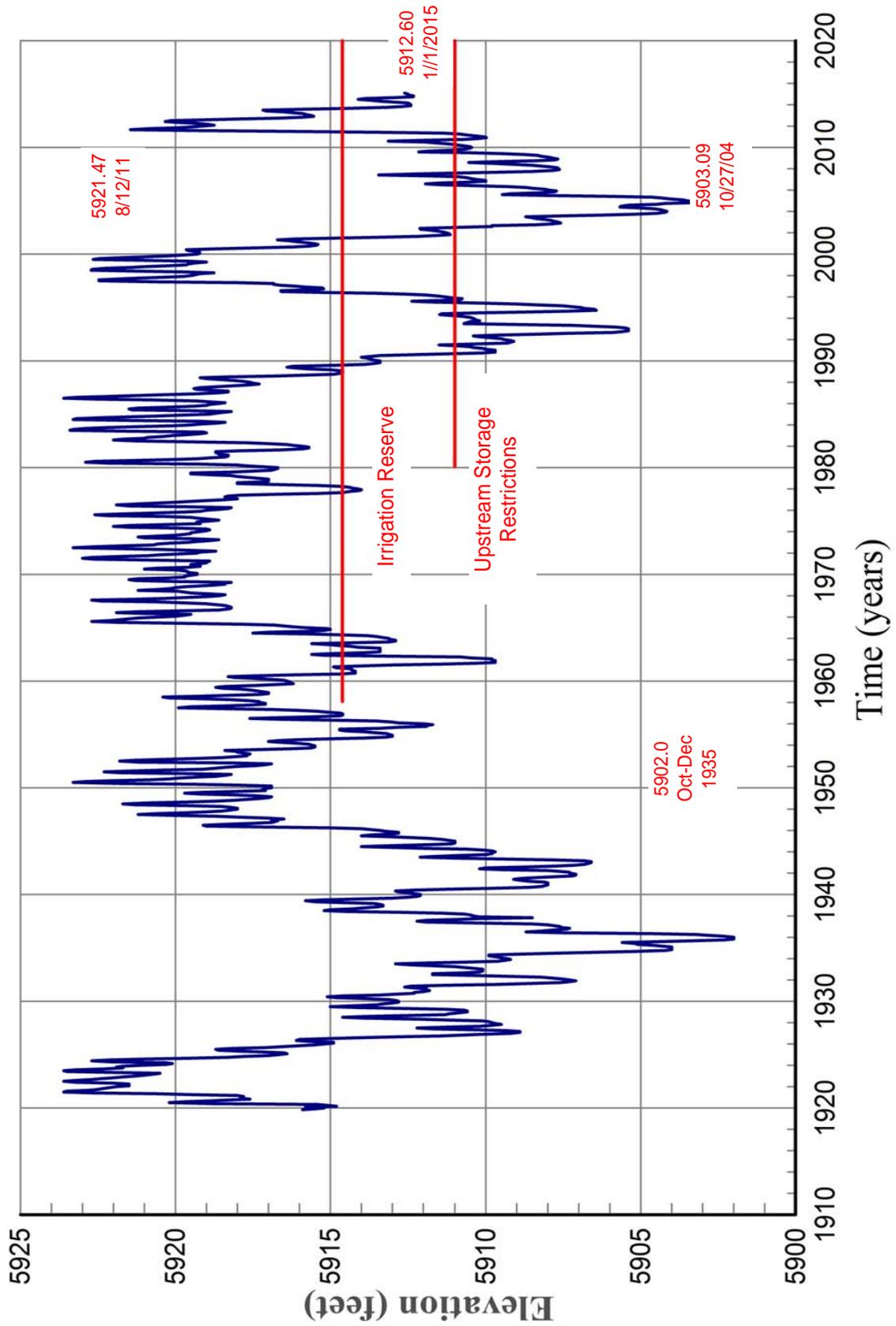


This graphic includes Jordanelle and Strawberry Reservoirs. Sand Hollow Reservoir is also included beginning in 2005.





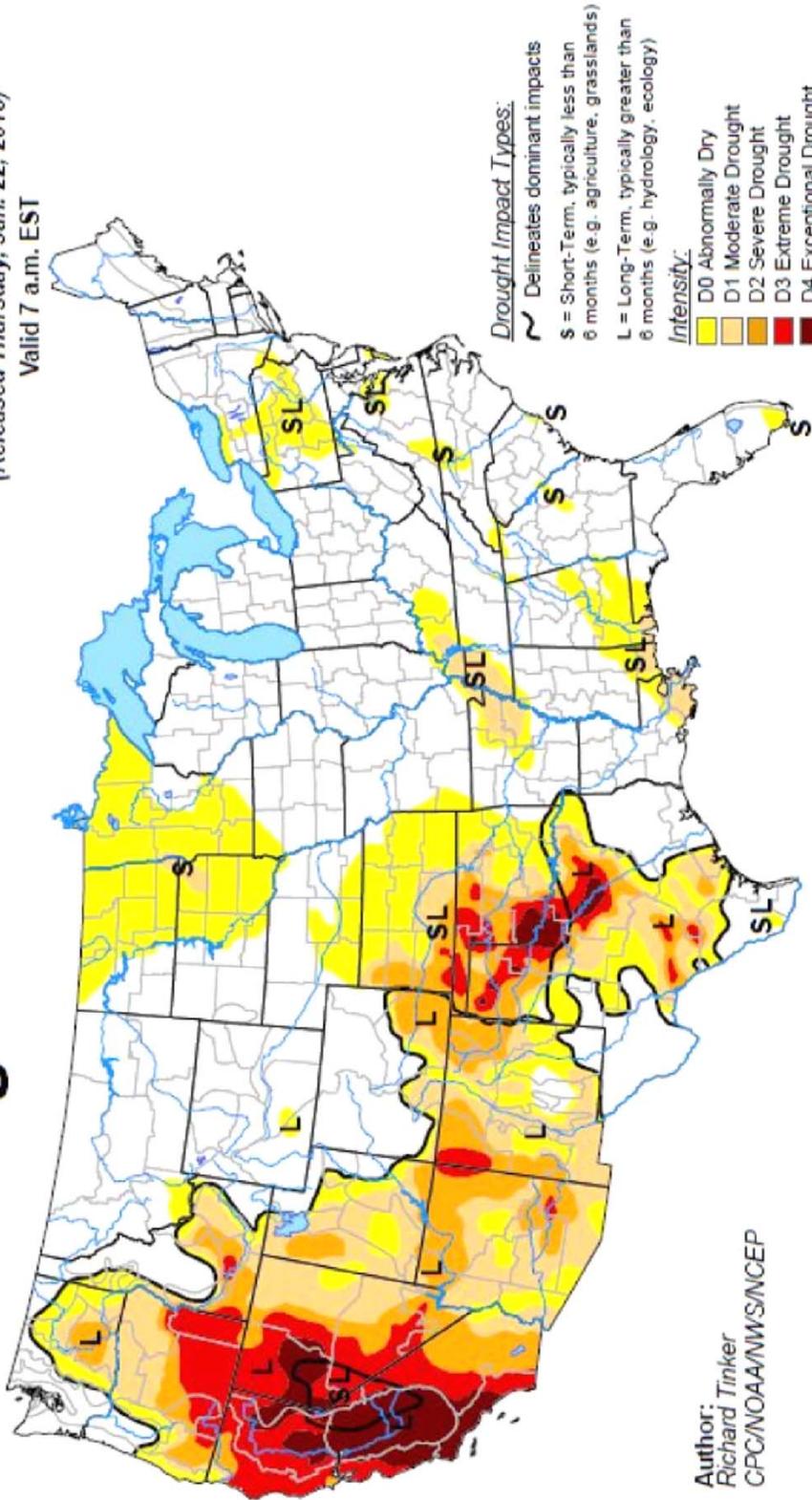
Historical Bear Lake Elevations





U.S. Drought Monitor

January 20, 2015
 (Released Thursday, Jan. 22, 2015)
 Valid 7 a.m. EST



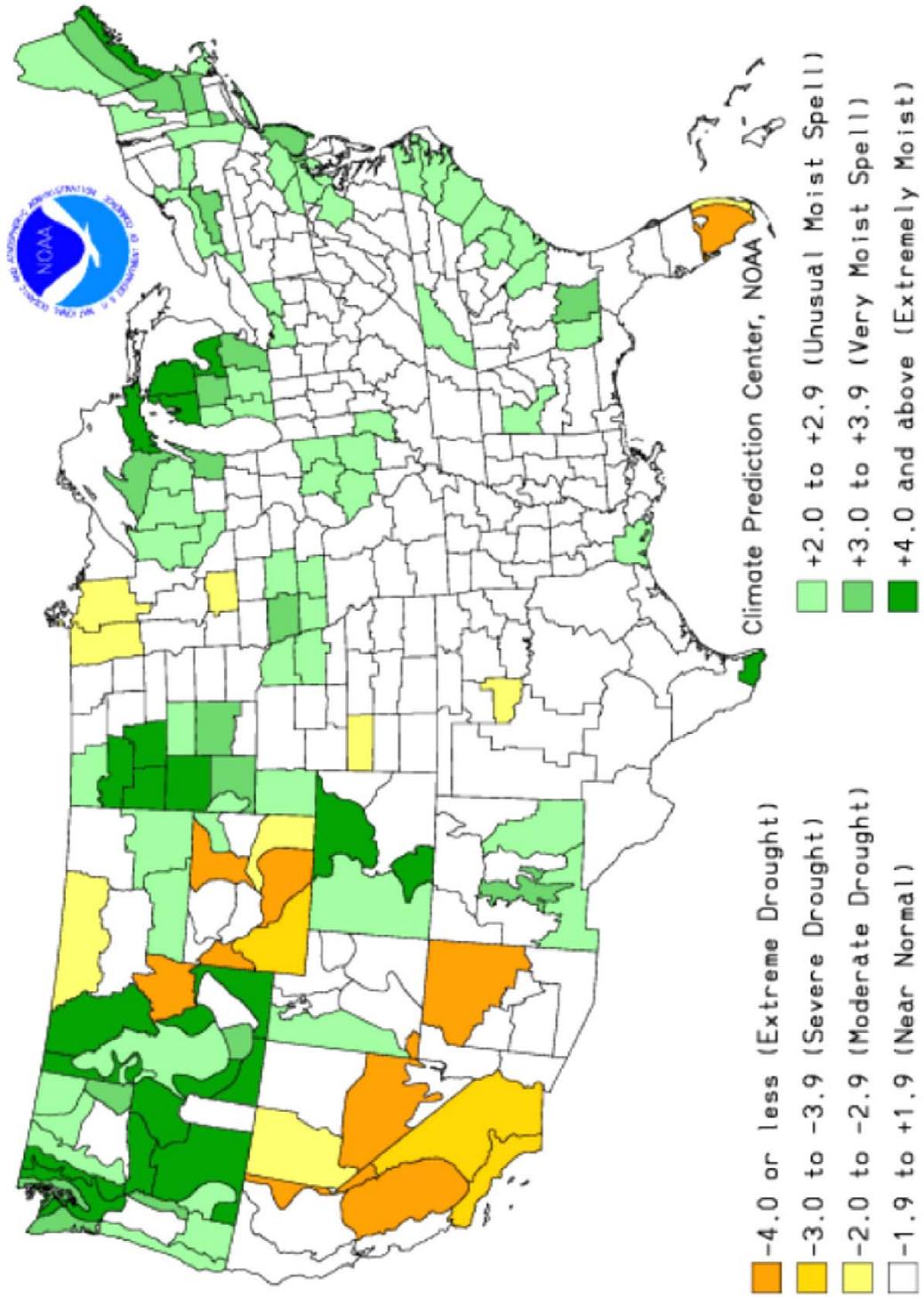
Author:
 Richard Tinker
 CPC/NOAA/NWS/NCEP

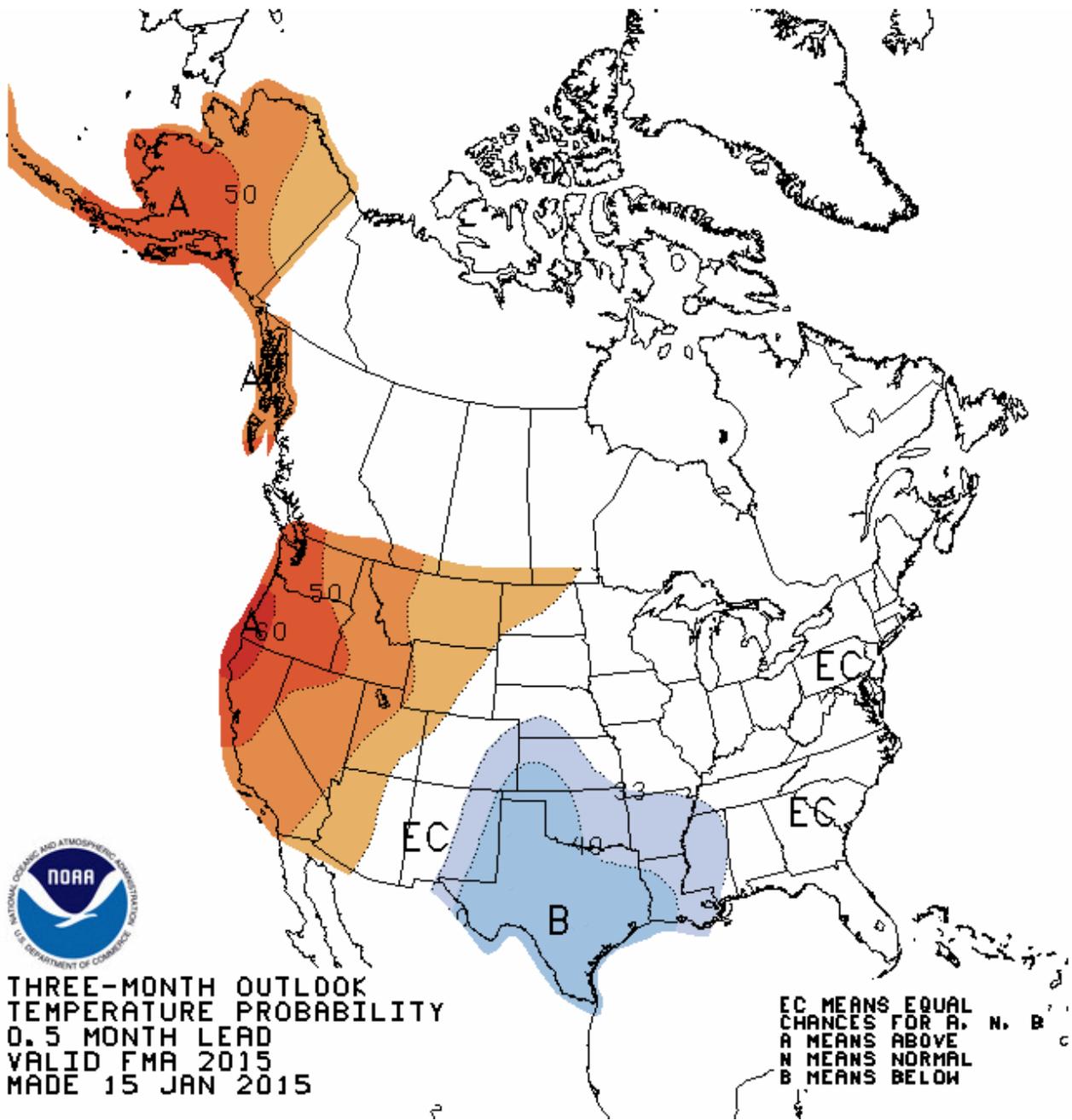
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

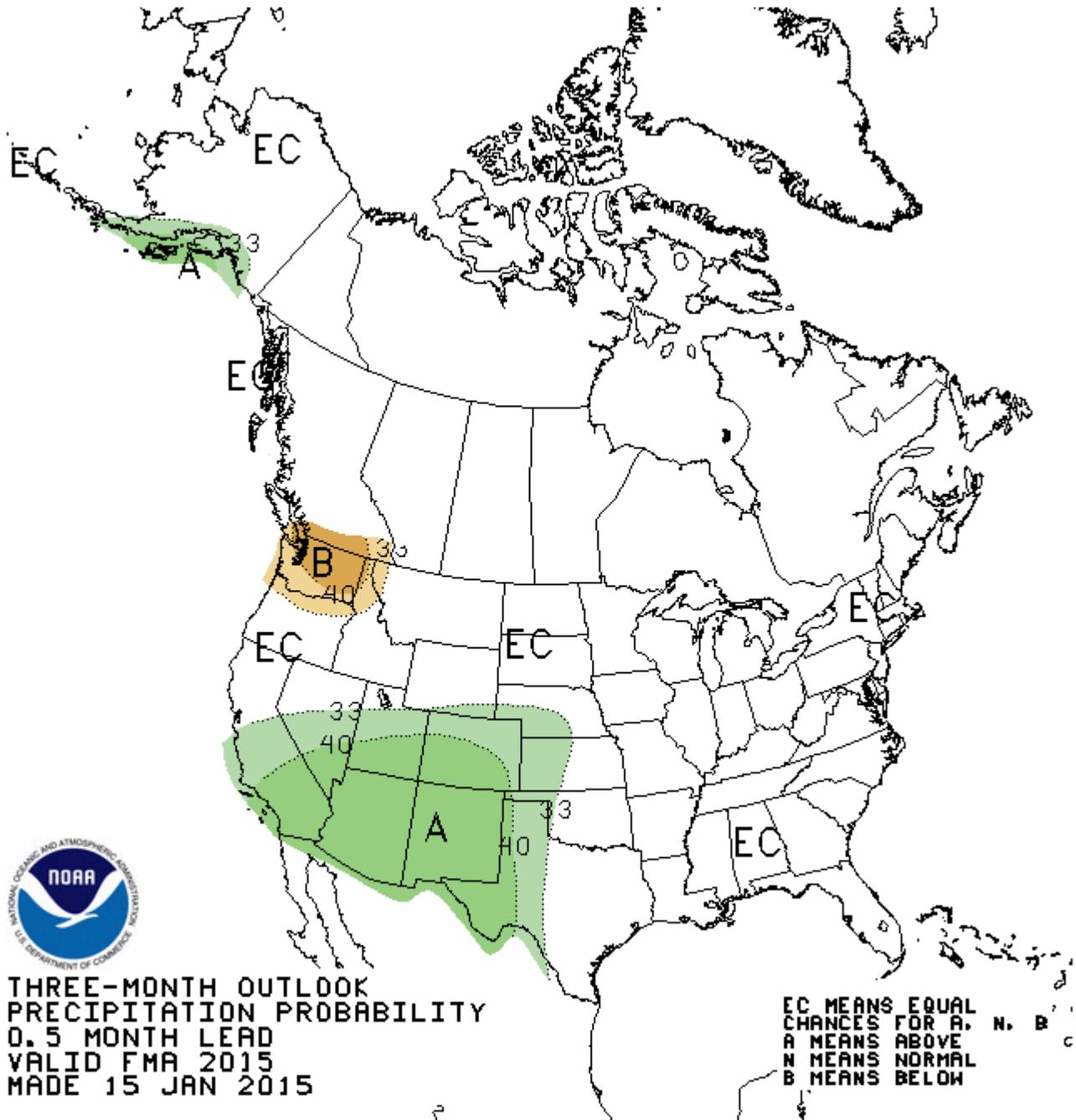
USDA National Drought Mitigation Center

<http://droughtmonitor.unl.edu/>

Drought Severity Index by Division
Weekly Value for Period Ending JAN 24, 2015
Long Term Palmer



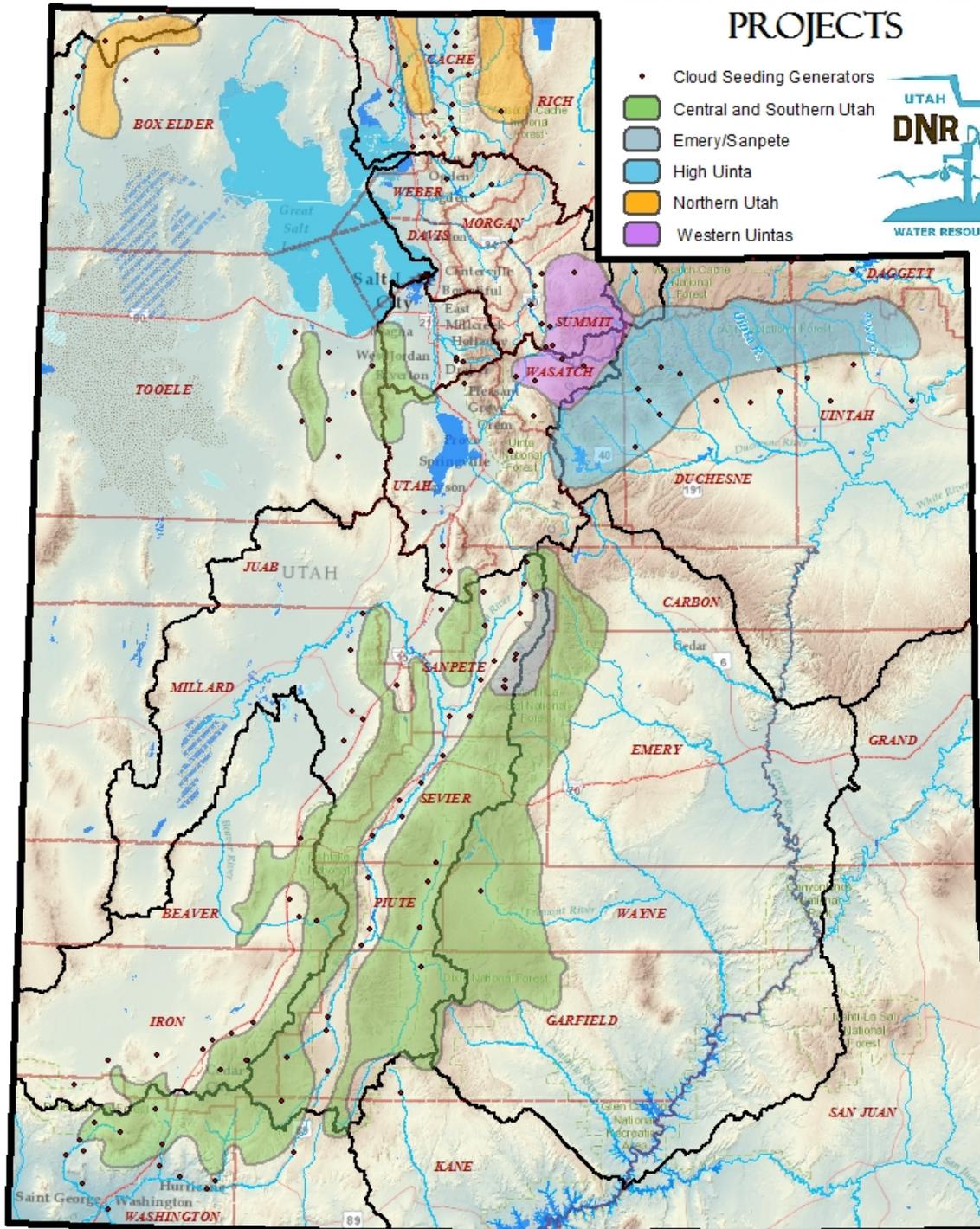






Cloud Seeding Target Areas

UTAH CLOUDSEEDING PROJECTS



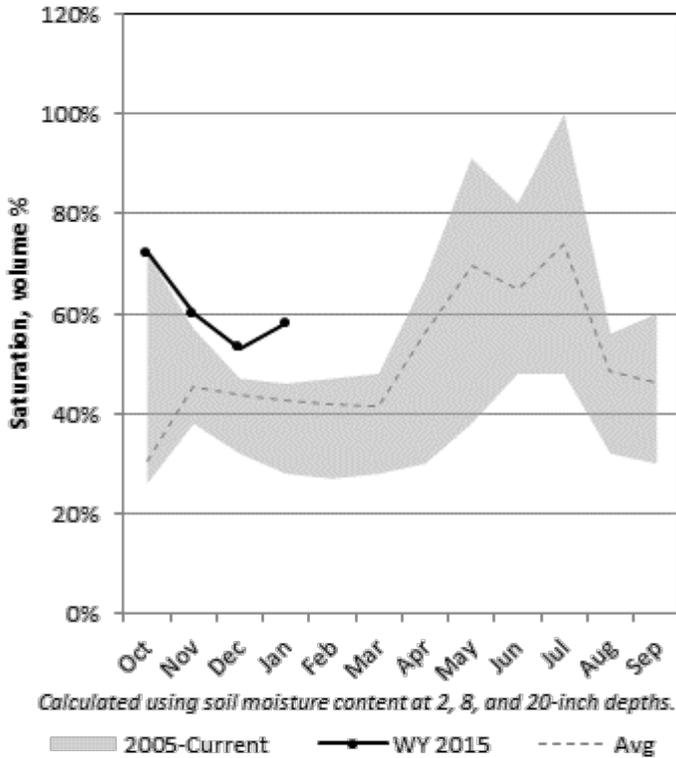
Sources: Esri, DeLorme, USGS, NPS



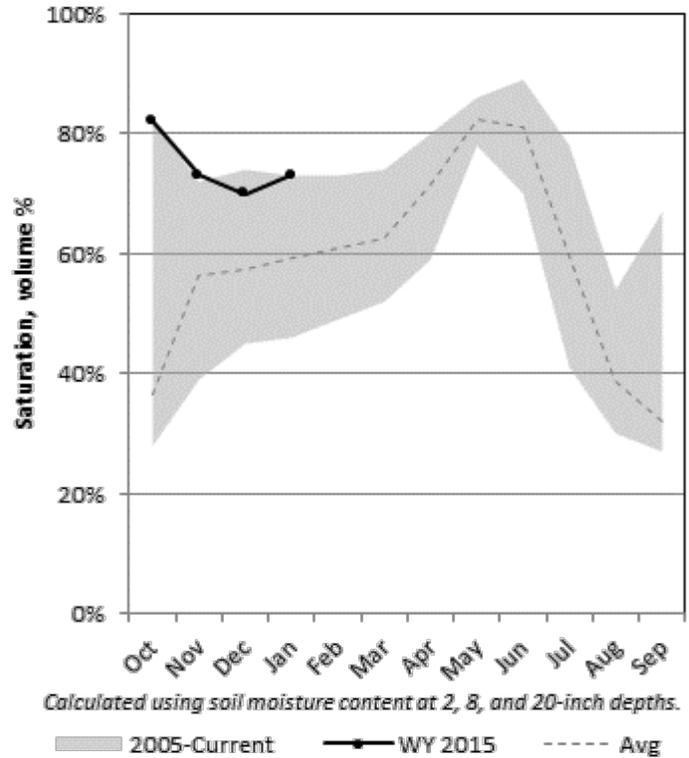
Soil Moisture Conditions by Watershed

Snowpack Telemetry (SNOTEL)

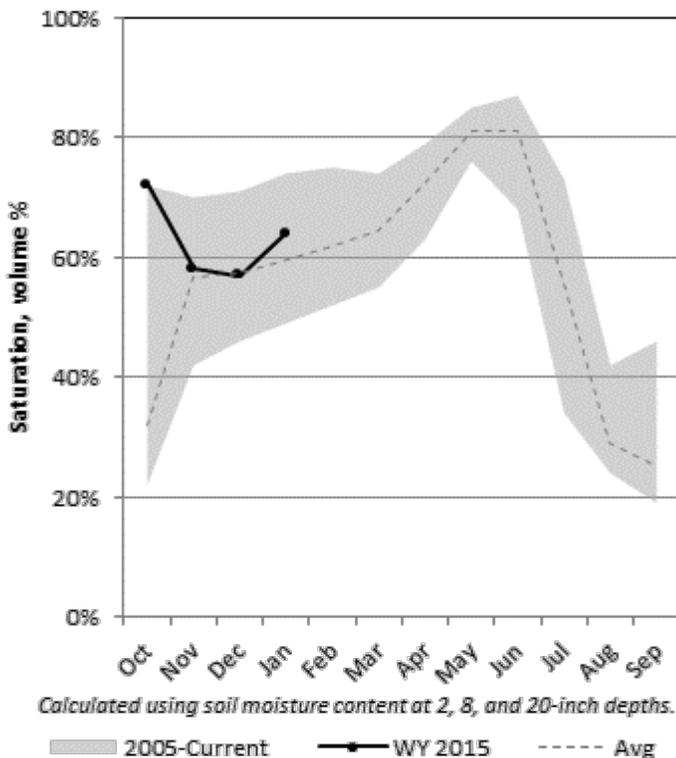
Raft River Basin



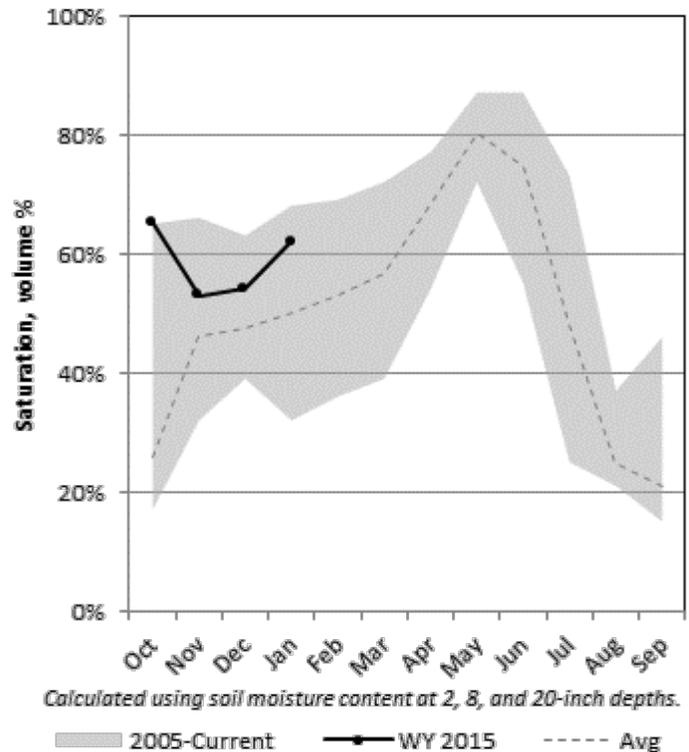
Bear River Basin



Weber & Ogden River Basins



Provo & Jordan River Basins

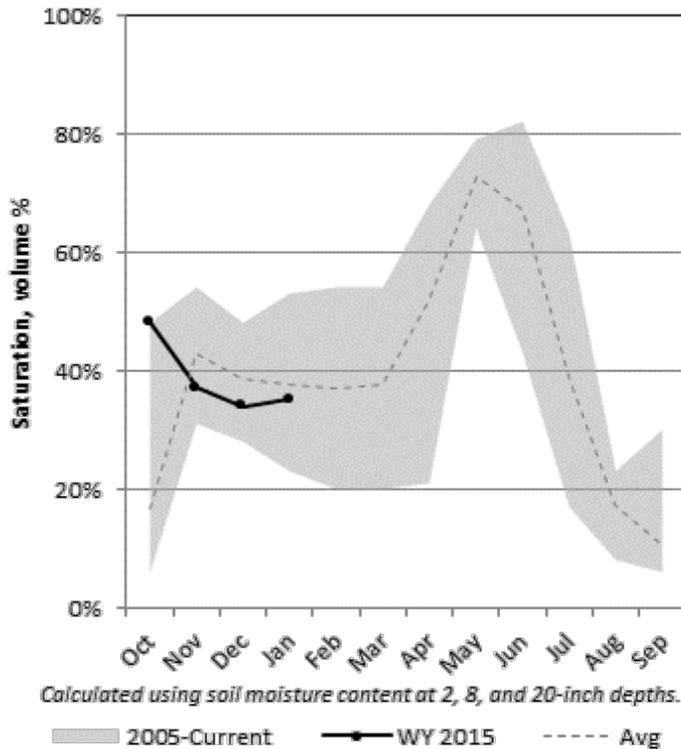




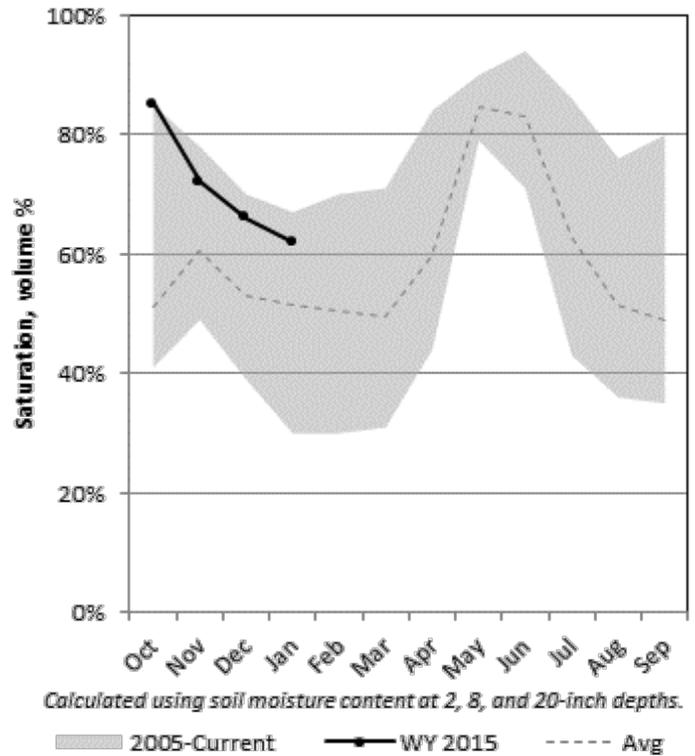
Soil Moisture Conditions by Watershed

Snowpack Telemetry (SNOTEL)

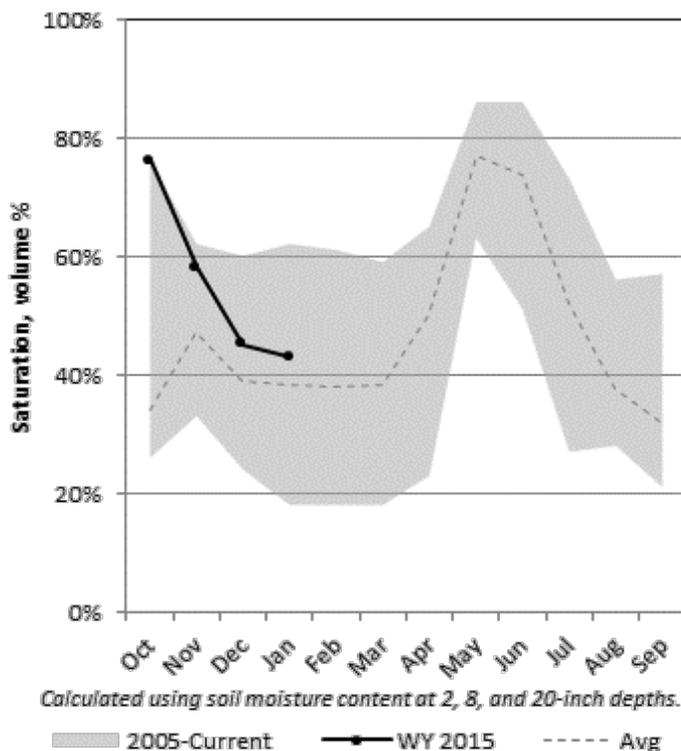
Tooele & Vernon Creek Basins



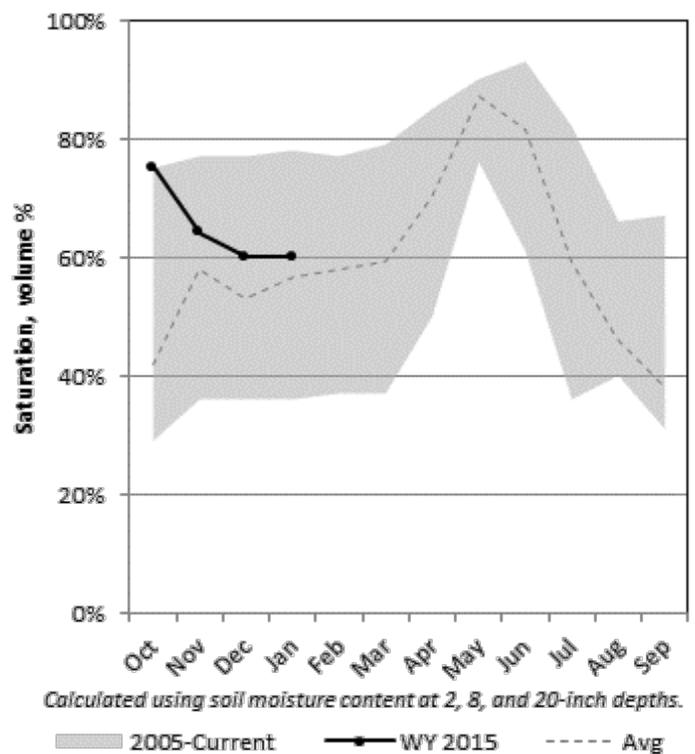
Northeastern Uintah Basin



Duchesne River Basin



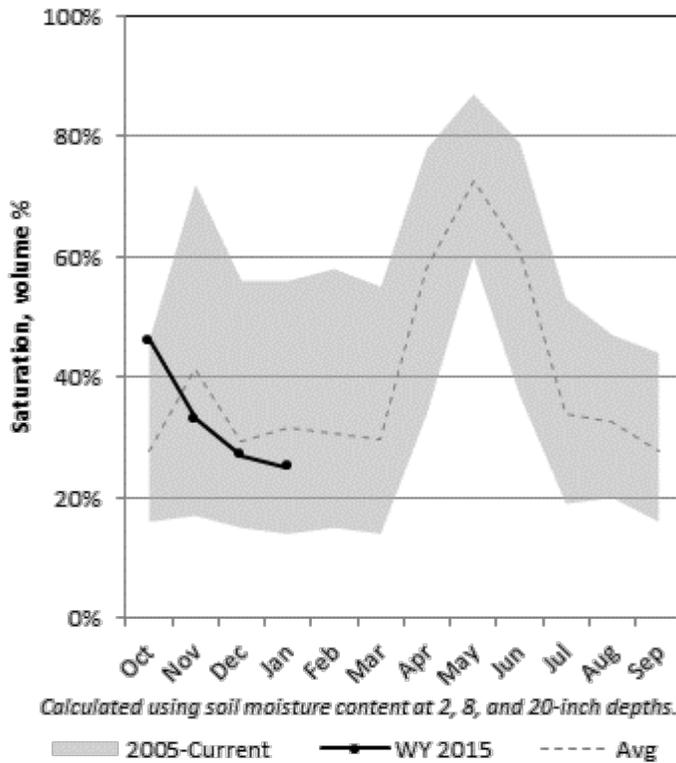
Price & San Rafael Basins



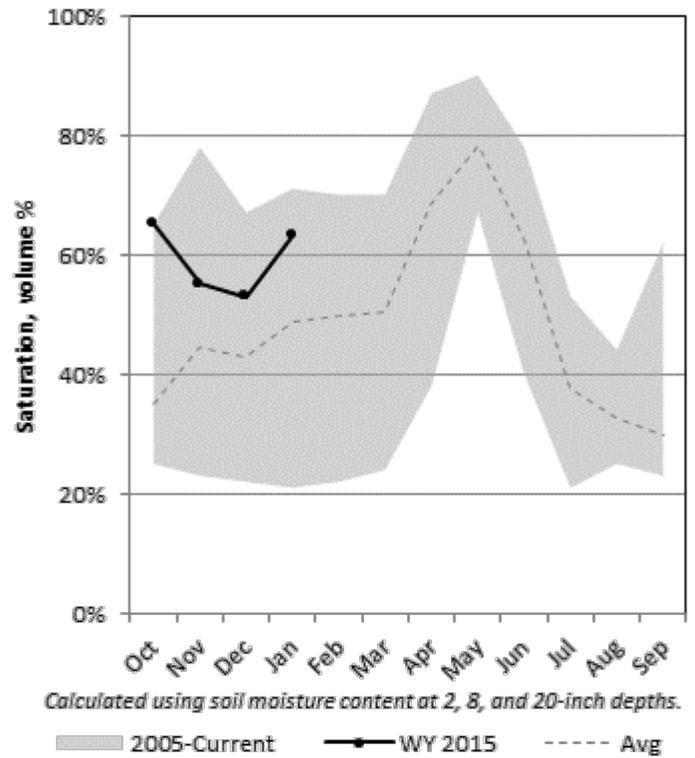


Soil Moisture Conditions by Watershed Snowpack Telemetry (SNOTEL)

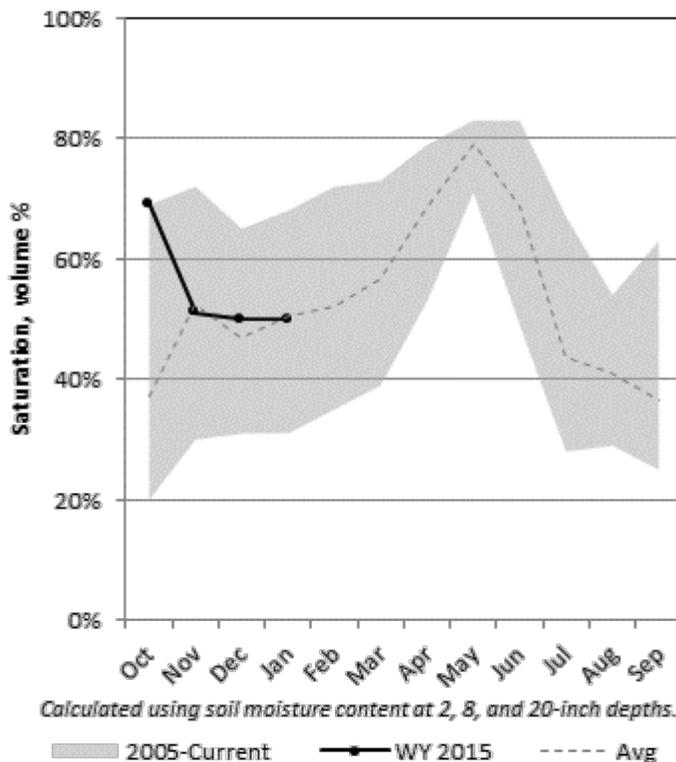
Dirty Devil Basin



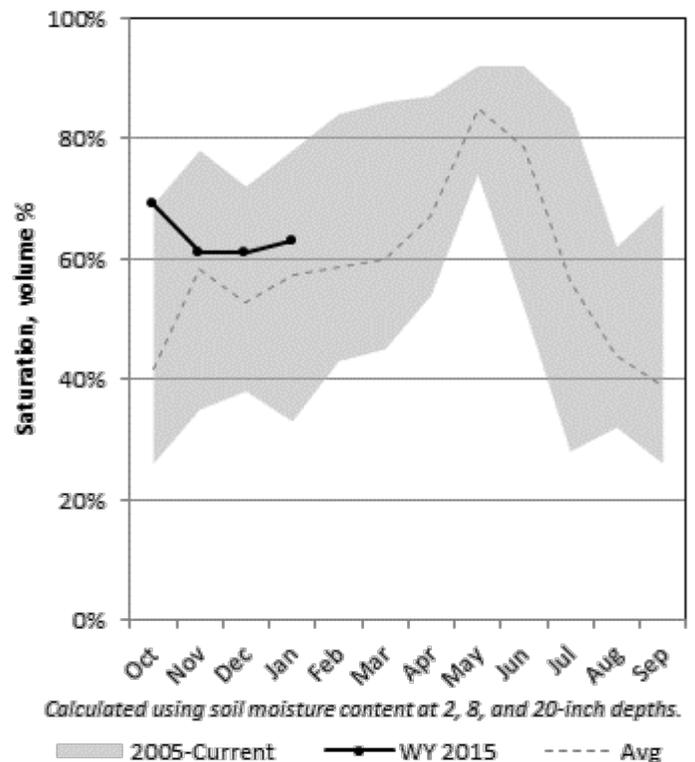
Southeastern Utah Basin



Upper Sevier River Basin



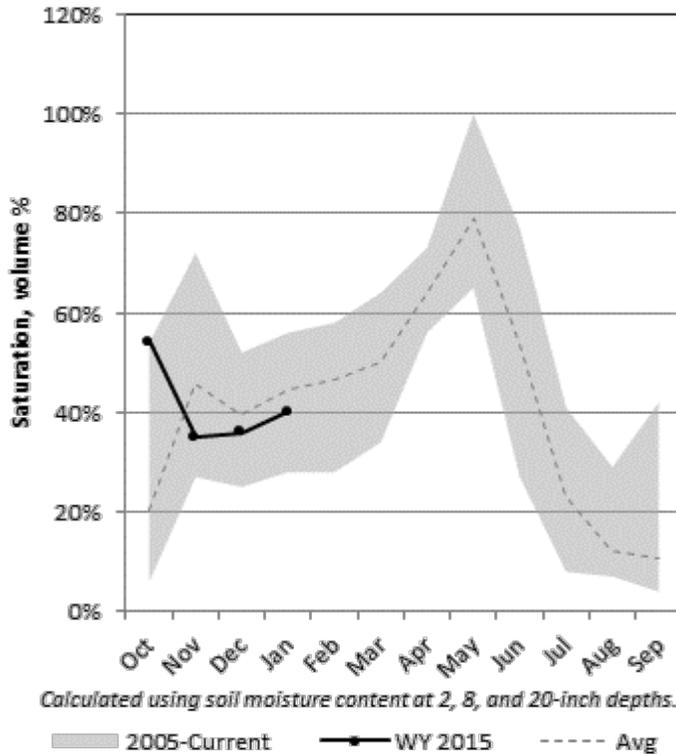
San Pitch River Basin



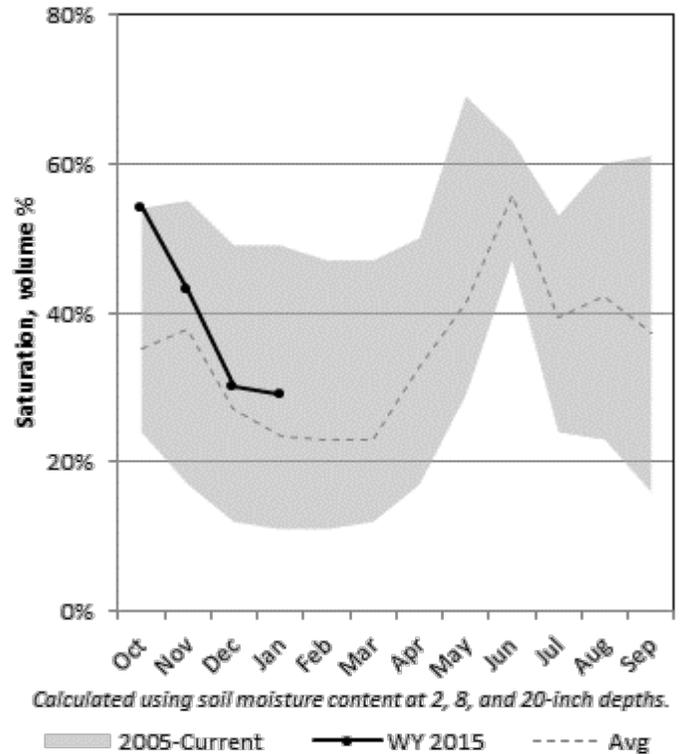


Soil Moisture Conditions by Watershed Snowpack Telemetry (SNOTEL)

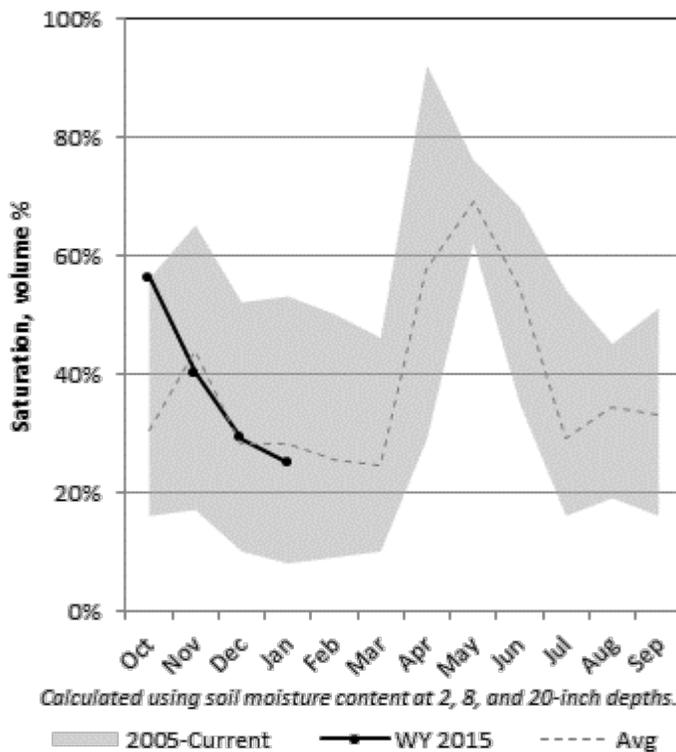
Lower Sevier River Basin



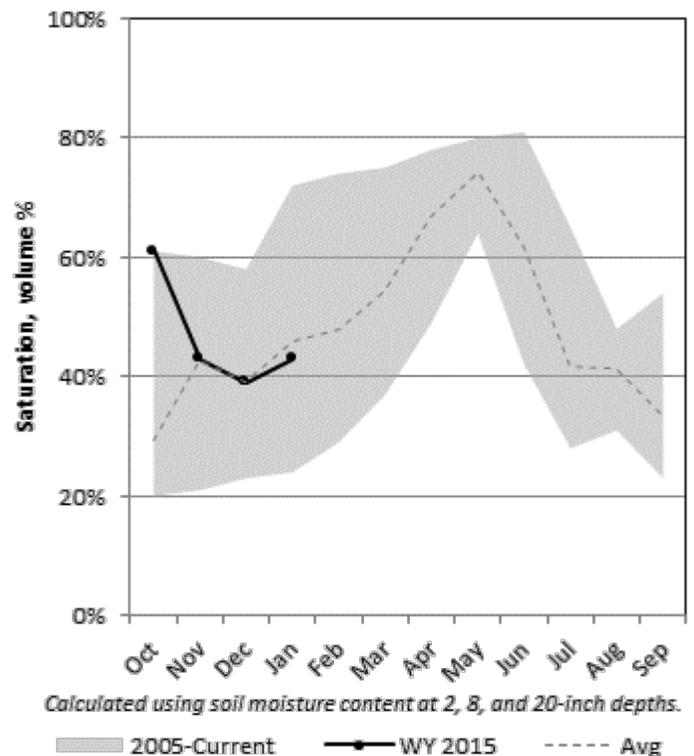
Beaver River Basin



Escalante River Basin



Southwestern Utah Basin





Soil Moisture Conditions by Watershed

Snowpack Telemetry (SNOTEL)

Statewide Utah

