



FY 2015 Annual Report

High Plains Underground Water Conservation District No. 1

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A LOOK BACK AT 2015 (*Photos*)

High Plains Underground Water Conservation District No. 1

Created by local residents and the state legislature in September 1951, the High Plains Underground Water Conservation District No. 1 marked its 64th year of operation during fiscal year 2015 (FY 2015).

The High Plains Water District strives to conserve, preserve, and protect the groundwater resources of the Ogallala and Dockum Aquifers within its 16-county service area.

The High Plains Underground Water Conservation District No. 1 consists of all of Bailey, Cochran, Hale, Lamb, Lubbock, Lynn, Parmer, and Swisher Counties, and parts of Armstrong, Castro, Crosby, Deaf Smith, Floyd, Hockley, Potter, and Randall Counties. The district's service area is approximately 11,850 square miles.

The purpose of the High Plains Water District, as required by Chapter 36 of the Texas Water Code, is to provide for conserving, preserving, protecting, recharging, and preventing the waste of underground water.

Since 1951, the Water District has developed its management philosophy and resulting management strategies.

During FY 2015, staff continued work on the programs outlined in the High Plains Water District's 10-year management plan, which was originally adopted by the Board of Directors on August 11, 1998. The management plan was amended and re-adopted on Jan. 29, 2004, February 18, 2010, July 19, 2011, and August 12, 2014.

This document contains management goals, performance standards, and responses to the performance standards for FY 2015.

The High Plains Water District expresses its appreciation to the supervisory staff for their careful documentation of program data and their assistance in compiling this annual report.

This annual report was reviewed and adopted by the High Plains Underground Water Conservation District No. 1 Board of Directors at their December 8, 2015 regular meeting.



BOARD OF DIRECTORS

Dan Seale	Member	Precinct One District Director	Lubbock, TX
Brad Heffington	Vice President	Precinct Two District Director	Littlefield, TX
Mike Beauchamp	Secretary-Treasurer	Precinct Three District Director	Friona, TX
Lynn Tate	President	Precinct Four District Director	Amarillo, TX
Ronnie Hopper	Member	Precinct Five District Director	Petersburg, TX

DISTRICT STAFF

Jason Coleman, P.E.	General Manager
Carmon McCain	Information/Education Group Supervisor
Juan Peña	Permit Supervisor
Gray Sanders	Information Technology Supervisor
Keith Whitworth	Field Technician Supervisor

Tammy Anderson	Accountant
Billy Barron	Field Technician
Kody Bessent	Legislative Affairs Director
Liz Casias	Receptionist/Administrative Assistant
Ray Eads	Field Technician (Canyon)
Lance Epperson	Field Technician
Adeline Fox	Education and Outreach Coordinator
Mark Hamilton	Field Technician
Greg Holder	Field Technician
Lance Jerden	Field Technician
Jed Leibbrandt	GIS Specialist
Gray Sanders	Information Technology Administrator
Andres Villareal	Field Technician

COUNTY ADVISORY COMMITTEES

COUNTY	MEMBERS
ARMSTRONG	Jim Bob Burnett, Wayside, TX
BAILEY	Nick Bamert, Muleshoe, TX John Bruce Barrett, Amherst, TX Tim Black, Muleshoe, TX Jim Pat Claunch, Muleshoe, TX Eric McElroy, Muleshoe, TX
CASTRO	Darrell Buckley, Dimmitt, TX Donny Carpenter, Dimmitt, TX Kirk Farris, Nazareth, TX Coy Myrick, Nazareth, TX Max Swinburn, Dimmitt, TX Paul Wayland, Dimmitt, TX Dale Wilhelm, Nazareth, TX
COCHRAN	Tommy Carter, Morton, TX Curtis Griffith, Lubbock, TX Glen Lyon, Morton, TX Scott Simpson, Morton, TX Richard Williams, Morton, TX
CROSBY	David Appling, Crosbyton, TX Dusty Cornelius, Crosbyton, TX Wayne Laminack, Ralls, TX John Schoepf, Lorenzo, TX Brad Thornhill, Crosbyton, TX Heath Verett, Ralls, TX Reagan Ware, Ralls, TX
DEAF SMITH	Frankie Bezner, Hereford, TX Kevin Buse, Hereford, TX Michael Carlson, Hereford, TX Andrew Gee, Hereford, TX Chris Grotegut, Dawn, TX Andy Schaap, Hereford, TX Harold Sides, Wildorado, TX

FLOYD	<p>Ray Brady, Floydada, TX Hulon Carthel, Floydada, TX Boyd Jackson, Lockney, TX Warren Mitchell, Lockney, TX Kerry Pratt, Floydada, TX John Woelfel, Floydada, TX</p>
HALE	<p>Rob Bass, Plainview, TX Gaylord Groce, Petersburg, TX Jeff Harrell, Plainview, TX Brad Martin, Edmonson, TX John Ross, Plainview TX Jimmy Sageser, Kress, TX</p>
HOCKLEY	<p>David Carter, Levelland, TX George Childress Jr., Levelland, TX R. E. Hensley, Sundown, TX Raymond Marek, Pep, TX Donald Rhodes, Ropesville, TX Preston Turner, Levelland, TX</p>
LAMB	<p>Jeff Edwards, Amherst, TX Kerry Faver, Littlefield, TX Steve Johnson, Olton, TX David Lawrence, Amherst, TX Bryan Patterson, Amherst, TX Kevin Riley, Springlake, TX Tullie Struve, Olton, TX</p>
LUBBOCK	<p>Steve Barrett, Lubbock, TX Gary Evitt, Idalou, TX Lynn Harrist, Shallowater, TX Tracey Kitten, Slaton, TX Linda Taylor, Ropesville, TX Rodney Terry, Wolfforth, TX</p>
LYNN	<p>Ty Askew, Amherst, TX Kevin Buxkemper, Slaton, TX Craig Heinrich, Lubbock, TX Ralph Huffaker, Tahoka, TX Stacy Smith, Wilson, TX Michael White, Tahoka, TX</p>

PARMER	<p>Tony Beauchamp, Bovina, TX Jerry Don Glover, Muleshoe, TX Cris Ingram, Friona, TX Terry Jesko, Muleshoe, TX Steve Kaltwasser, Farwell, TX Josh McDonald, Muleshoe, TX Ryan Williams, Farwell, TX</p>
POTTER	<p>Bruce Blake, Amarillo, TX Michael Menke, Amarillo, TX</p>
RANDALL	<p>Charles Allison, Amarillo, TX Jason Avent, Canyon, TX Randy Darnell, Amarillo, TX Clinton Glenn, Canyon, TX Dillon Pool, Amarillo, TX Pat Scarth, Amarillo, TX Ryan Wieck, Umbarger, TX David Winters, Canyon, TX</p>
SWISHER	<p>Brian Borchardt, Tulia, TX Trent Finck, Tulia, TX Cindy Hurt, Tulia, TX Max Moore, Kress, TX Jeremy Reed, Kress, TX</p>

KEY EVENTS OF 2015 FISCAL YEAR

(October 1, 2014 to September 30, 2015)

- **November 2014:** Board of Directors election in Precincts One, Two, and Five. Dan Seale elected Precinct One Director, Brad Heffington re-elected Precinct Two Director, and Ronnie Hopper elected Precinct Five Director.
- **December 2014:** HPWD staff make annual water level measurements. HPWD booth at Amarillo Farm and Ranch Show.
- **January 2015:** 84th Texas Legislature convenes at Austin.

Crosbyton High School seniors honored as inaugural winners of HPWD's H2YOU conservation campaign contest.
- **February 2015:** HPWD honors students at Regional Science Fair.
- **March 2015:** Rulemaking hearing held in Tulia to receive public comments on amendments to HPWD Rule 4.1(e) and 4.2(b).

HPWD Board rejects Briscoe County annexation.

HPWD Board adopts amendments to Rules 4.1(e) and 4.2(b).

Cargill-Friona recognized with 2015 Blue Legacy Award for Manufacturing during "Texas Water Day at the Capitol." HPWD nominated Cargill for this award.
- **April 2015:** HPWD conducts annual rainwater harvesting workshops.

HPWD Board approves Dockum Aquifer study.

Water level measurements indicate an average decline of -0.56 of a foot in the Ogallala Aquifer from 2014 to 2015.
- **May 2015:** HPWD participates in second annual Wolfforth Water Expo.

Heavy rainfall improves drought conditions across the state.

HPWD refines interactive map interface on district website.
- **June 2015:** Dr. Dan Krieg passes away at 72. He was a noted plant physiologist and member of the HPWD Lubbock County Advisory Committee.

- **June 2015:** HPWD Board approves seven research and demonstration projects totaling more than \$41,000.

HPWD & USGS to conduct logging of Dockum wells.

84th Texas Legislature adjourns sine die on June 1.

- **July 2015:** HPWD & USGS to conduct logging of Dockum wells.

- **August 2015:** Rainwater harvesting tours held in Amarillo/Canyon on August 1 and Brownfield/Lubbock on August 8.

HPWD hosts Youth Agricultural Lifetime Leadership (YALL) tour.

- **September 2015:** Legislation, water funding, & HPWD programs discussed at September 15 County Advisory Committee meeting in Lubbock.

Cost-share funding available for meter purchases available from Texas Water Development Board in Austin.

Conservation Connect magazine published.

MANAGER'S MESSAGE – Jason Coleman



It is our pleasure to present the fiscal year 2015 annual report.

This is the first report to reflect the change in the HPWD fiscal year from a calendar year to one which begins October 1st and ends September 30th.

The HPWD Board of Directors and staff have accomplished a number of goals during the past year.

Here are just a few examples:

- Recent drought conditions have kindled renewed interest in the Dockum Aquifer as an alternate water supply. The HPWD Board approved a Dockum Aquifer study as well as geophysical logging of select Dockum wells by the district and the U.S. Geological Survey. This is designed to improve understanding of the geology and hydrology of the Dockum Aquifer within the district.
- The district reinstated its Irrigation Assessment Program after a four-year hiatus. Information from the program gives a better understanding of water use efficiency within the district. We appreciate the producers who cooperated in the program this year and look forward to working with them in the future.
- Refinements were made to the interactive map portion of the HPWD web site. Visitors are now able to access information pertaining to all permitted wells in the district, annual and daily observation well data, and water well logs.

It is a privilege to serve our district's constituents. The HPWD Board of Directors and staff are working to provide the best information and services designed to conserve the groundwater resources of the aquifers within the district's 16-county service area.

As always, your comments and concerns about the district's programs and activities are welcomed.

ANNUAL REPORT OF ATTAINMENT OF GOALS

GOAL 1: PROVIDING THE MOST EFFICIENT USE OF GROUNDWATER

Management Objective 1.1 – Monitor Water Levels

Water level measurements are vital to the study of the aquifers within the High Plains Water District (HPWD). Annual measurements are taken each winter--during the time that most of the irrigation usage is at a minimum.

Performance Standards

1.1a Number of wells measured in 2015. (1,418 wells)

1.1b Number of wells that were unable to be measured in 2015. (79 wells)

1.1c Number of new wells added to the observation well network in 2015.
(There were 17 Ogallala wells and 23 Dockum wells added to the network.)

1.1d Construct maps illustrating the yearly changes in water levels.

Annual changes in depth-to-water and saturated thickness in wells within the district's observation well network are available for online viewing at **map.hpwd.org** -> **Observation Wells**.

In addition, results of the district's 2015 water level measurements are available to the public via an annual report at **www.hpwd.org/reports**.

1.1e Maintain continuous water level monitoring transducers were maintained in wells within the district. *(There shall be a minimum of at least 10 wells).*

There are 35 continuous water level monitoring transducers installed/maintained in wells within the district.

Management Objective 1.2 – Monitor Saturated Thickness

Saturated thickness represents the aquifer section where groundwater pumping occurs. Water users should be aware of changes in saturated thickness.

Performance Standards

- 1.2a Calculate the saturated thickness for water level observation wells that have a log of well construction.**

County	Number of Observation Sites With Log of Construction	Average Saturated Thickness from Observation Wells
Armstrong	5	30
Bailey	77	71
Castro	83	69
Cochran	42	38
Crosby	11	120
Deaf Smith	80	67
Floyd	89	67
Hale	49	64
Hockley	65	39
Lamb	95	52
Lubbock	65	56
Lynn	23	36
Parmer	94	52
Potter	5	57
Randall	32	46
Swisher	9	53

- 1.2b Provide saturated thickness data via the district website.**

These data are available to the public as part of the HPWD interactive observation well map at map.hpwd.org. In addition, hydrologic atlases showing saturated thicknesses for each county or portion of the county within the district are also online at www.hpwd.org/atlasses/

Management Objective 1.3 – Technical Field Services

HPWD is frequently consulted by the public to determine water well capacities. A variety of tools, such as ultrasonic flow meters and e-lines, are used by district staff for this purpose.

Performance Standards

- 1.3a Document the number of flow tests performed by district staff in 2015. (973)**
- 1.3b Number of flow tests performed by the public using the metering equipment loaned to water users by the district. (5)**
- 1.3c Number of water level measurements performed for individual well owners.**
A total of 619 water level measurements were made in FY 2015. Approximately 581 of these were made as part of the Irrigation Assessment Program. The remaining 38 measurements were requested by individual landowners/operators.

Management Objective 1.4 – Irrigation Assessment Program

Agricultural irrigation comprises the majority of groundwater use within the district's 16-county service area. For this reason, it is important for the district to understand the patterns of groundwater use on different crops. The district monitors application amounts and crop types through voluntary cooperation of a network of agricultural producers. The following data reflects the 2014 crop year.

Performance Standards

- 1.4a Number of sites enrolled in the district's irrigation assessment program.**
(101 sites)
- 1.4b Document the types of crops being irrigated.**
(Alfalfa, Barley, Cotton, Cucumbers, Grain Corn, Grain Sorghum, Green Beans, Peanuts, Peas, Pumpkins, Silage, Sunflowers, Triticale, and Wheat.)
- 1.4c Document the irrigation methods being utilized.**
(Furrow irrigation, center pivot irrigation, and subsurface drip irrigation.)

Management Objective 1.5 – Data Availability

It is our goal to provide the best available hydrologic information to water users within the district. This information is made available on a variety of platforms, such as electronic and print media. Timely delivery of this information and ease of access by the public are also critically important.

Performance Standards:

1.5a Summary and description of new/improved data tools.

The updated online map now combines all previous maps into one location with the addition of the “Legal Description” layer which is displayed at the appropriate zoom level. This merger allows the user to switch between data sets without the need to find their location again. Other improvements include on-screen latitude and longitude and the ability to measure area or distance.

1.5b Summary and description of existing data tools.

The online map allows the public to view well locations and download associated documents, which include permits, well logs and geophysical logs. The locations of Observation Network wells are available to view Annual and Daily water levels through an interactive graph. Employing the Well Spacing Guide will allow users to estimate a desired drilling location based off of the District’s minimum distance rules.

1.5c Inventory of all data tools available to the public.

- Aquifer Maps
- 2012 Hydrologic Atlas
- Groundwater Management Area (GMA) Map
- Regional Water Planning Group (RWPG) Map
- Drought Map
- Center Pivot and SDI location Map

Management Objective 1.6 – Irrigation System Inventory

As groundwater availability changes, it is expected that the amount of irrigated acreage will change as well. Documenting the type and number of irrigation systems within the district’s service area may be accomplished through remote imagery or other tools.

Performance Standards

1.6a Number of irrigation systems documented.

(There are 13,900 center pivot systems and 5,657 subsurface drip irrigation systems in operation within the district.)

1.6b Calculate acreage covered by the irrigation systems.

(Approximately 2,173,900 acres are irrigated within the district. Of these, 1,778,350 acres are irrigated with center pivots and 395,550 acres are irrigated with subsurface drip irrigation.)

GOAL 2: CONTROLLING AND PREVENTING WASTE OF GROUNDWATER

Management Objective 2.1 – Well permitting and well completion

HPWD issues permits for water wells expected to produce 17.5 gallons per minute or more from the Ogallala Aquifer, the Edwards-Trinity Aquifer, and the Dockum Aquifer.

Performance Standards

2.1a Number of water well permits issued per aquifer.

Dockum Aquifer	32
Edwards-Trinity Aquifer	0
Ogallala Aquifer	461
TOTAL	493

2.1b Number of well completions per aquifer.

Dockum Aquifer	7
Edwards-Trinity Aquifer	1
Ogallala Aquifer	515
TOTAL	523

2.1c Production categories of well permits issued in FY 2015.

DOCKUM AQUIFER	
500 gallons per minute	26
> 500 gallons per minute	3
TOTAL	29

OGALLALA AQUIFER	
70 gallons per minute	76
165 gallons per minute	154
265 gallons per minute	106
390 gallons per minute	48
560 gallons per minute	73
1,000 gallons per minute	7
TOTAL	464

Management Objective 2.2 – Open, Deteriorated, or Uncovered Wells

Open, deteriorated, or uncovered wells pose a threat to groundwater quality as well as human/animal safety. Staff members may discover such wells during routine field work or notice of these wells may be received from the public.

Performance Standards

2.2a Number of open, deteriorated, or uncovered wells reported. (83)

2.2b Number of well caps provided to cover open wells. (30)

2.2c Number of open, deteriorated, or uncovered wells that were capped, closed, or repaired during FY 2015, in accordance with district rules. (55)

Management Objective 2.3 – Waste of Groundwater

Waste of groundwater is usually reported to the HPWD office by the public. It may also be discovered by a staff member in performance of their duties. Since groundwater waste is prohibited by State Law, all reports of groundwater waste are investigated by staff. The corresponding well owner is notified of the wasteful practice and encouraged to take corrective measures.

Performance Standards

2.3a Number of water waste reports investigated by district staff. (49)

2.3b Number of newsletter articles addressing waste prevention. (1)

MONTH	ARTICLE HEADLINE
July 2015	"July is Smart Irrigation Month" (<i>Landscape Water Waste</i>)

GOAL 3: CONTROLLING AND PREVENTING SUBSIDENCE

This goal is determined to be non-applicable to the High Plains Water District.

GOAL 4: CONJUNCTIVE SURFACE WATER MANAGEMENT ISSUES

Management Objective 4.1 – Coordination with Surface Water Management Agencies.

There are limited surface water resources within the High Plains Water District service area. Participation in the Llano Estacado Regional Water Management Planning Group (Region O) will ensure that the district is current on issues facing surface water agencies within the region.

Performance Standards

4.1a Number of Region O meetings attended by HPWD staff in FY 2015.

HPWD Staff attended six Llano Estacado Regional Water Planning Group meetings: Nov. 21, 2014; Jan. 27, 2015; March 26, 2015; April 15, 2015; June 18, 2015 public hearing; and Sept. 10, 2015.

GOAL 5: NATURAL RESOURCE ISSUES

This goal is determined to be non-applicable to the High Plains Water District.

GOAL 6: DROUGHT CONDITIONS

Management Objective 6.1 – Provide Ongoing, Relevant Drought Information

Drought awareness helps water users understand the level of conservation required to meet a particular need.

Performance Standards

6.1a Provide drought-related articles to the public. This can also include the district website.

MONTH	ARTICLE HEADLINE
May 2015	“Is The Five-Year Drought Over?”
July 2015	Rainwater Guzzlers: Thirst Quenchers For Wildlife”

6.1b Provide rainfall data to the public.

West Texas Mesonet Rainfall Totals as well as historic rainfall data for both Amarillo and Lubbock are available on the “maps-other” section of the HPWD website (www.hpwd.org/other/).

GOAL 7: CONSERVATION, RECHARGE ENHANCEMENT, RAINWATER HARVESTING, PRECIPITATION ENHANCEMENT, OR BRUSH CONTROL, WHERE APPROPRIATE AND COST-EFFECTIVE.

Management Objective 7.1 – District Newsletter

HPWD will produce a newsletter (“*The Cross Section*”) and distribute it to area residents and other interested parties. Articles discussing methods to conserve and preserve groundwater quality and quantity will be included.

Performance Standards

7.1a Number of newsletter subscribers in FY 2015.

There are 1,698 electronic version subscribers and 686 print version subscribers.

7.1b Number of electronic/print newsletters produced/distributed in FY 2015.

There were 22 electronic issues and 12 print issues produced/distributed during FY 2015.

7.1c Number of articles addressing conservation practices during FY 2015.

There were 15 articles addressing conservation practices in FY 2015.

MONTH	NEWSLETTER ARTICLE HEADLINE
October 2014	“Waterwise Program Teaches Students To Conserve”
November 2014	“Local AgriLife Researchers Receive National Honors”
December 2014	“Scientists Finishing Study – Corn Hybrids and Water Efficiency”
January 2015	“Splish Splash...Your Car Is Takin’ A Bath”
January 2015	“Hoppers Are Southwest High Cotton Award Winners”
March 2015	“Cargill Meat Solutions Receives 2015 Blue Legacy Award”
March 2015	“Dragon-Line™ Precision Mobile Drip Irrigation Introduced”
April 2015	“Rainwater Harvesting Workshops To Be Held In April”
April 2015	“Water Level Measurements Indicate Average Decline of -0.56 of a foot”
May 2015	“Reclaimed Water Wins Water Expo Taste Test”
June 2015	“Rainwater Harvesting Tours Set for August”
July 2015	“July Is Smart Irrigation Month”
July 2015	“Rainwater Guzzlers: Thirst Quenchers For Wildlife”
August 2015	“Rainwater Harvesting Installations Showcased During Two HPWD Tours”
September 2015	“Cost-Share Funding Available For Meters”

In addition, the Fall 2015 *Conservation Connect* magazine featured the following conservation articles:

“Guzzlers: Thirst Quenchers for Wild Animals”
“Splish, Splash – Your Car Is Taking A Bath”
“Catalyzing Wastewater Into Ethanol”
“White River Lake: Then and Now”
“Exploring Rainwater Harvesting Systems”
“Aquaponics Abroad”
“Urban Community Cultivates Interest In Conservation”
“Get To Know This H2O: Walter Drop”
“H2YOU Winners Recognized in Austin”
“It Is Not All About That Cactus”

The magazine is available in both print and electronic versions. The electronic version, available on Issuu, has received 157 reads and 946 impressions in the 30 days since it was posted to the HPWD website.

Management Objective 7.2 – News Releases

HPWD will produce news releases about water conservation practices and other relevant subjects for distribution to print media, electronic media, and other interested parties.

Performance Standards

7.2a Number of news releases published.

There were 17 news releases produced and distributed to the media in FY 2015.

7.2b Number of news releases addressing conservation practices.

There were five news releases produced and distributed to the media in FY 2015.

MONTH	NEWS RELEASE
December 2014	“HPWD Personnel Making Water Level Measurements”
March 2015	“HPWD To Conduct Rainwater Harvesting Workshops In April”
March 2015	“Cargill-Friona Wins Blue Legacy in Manufacturing Award”
April 2015	“Water Level Measurements Show Avg. Decline of -0.56 Of A Foot”
July 2015	HPWD Sponsors Rainwater Harvesting Tours”

Management Objective 7.3 – Radio Announcements

HPWD will distribute pre-recorded 60-second radio announcements about water conservation practices and other subjects to stations within the district.

Performance Standards

7.3a Number of radio announcements produced.

There were four radio announcements produced and distributed – one announcement per quarter.

Management Objective 7.4 – Public Presentations

HPWD representatives will present information about water conservation practices, district programs and activities, and other subjects to civic clubs, professional organizations, and other interested parties.

Performance Standards

7.4a Number of presentations given.

HPWD personnel gave 137 presentations about water conservation during FY 2015.

Adeline Fox:	80
Kody Bessent:	39
Jason Coleman:	11
Carmon McCain:	7

7.4b Document estimated attendance at each venue.

HPWD personnel estimated the attendance at each venue, which ranged from as few as two persons (*Meetings with Mayor and City Managers of towns in the district*) to as many as 1,200 students (*"Ag in the Bag" program*). It is estimated that more than 1,700 people learned more about water conservation as a result of HPWD presentations in 2015.

Management Objective 7.5 – Rainwater Harvesting

HPWD will promote awareness of rainwater harvesting as a conservation practice to district residents.

Performance Standards

7.5a Number of public presentations dedicated to rainwater harvesting.

The district hosted a rainwater harvesting workshop in Levelland, Plainview, Muleshoe, and Canyon in April 2015. A total of 86 persons attended the workshops. In addition, rainwater harvesting tours were conducted in Amarillo/Canyon and Brownfield/Lubbock in August 2015. A total of 29 persons attended the tours.

7.5b Number of rainwater harvesting barrels and rain chains distributed to the public.

About 80 rainwater harvesting barrels and 80 rain chains were distributed to the public during FY 2015.

Management Objective 7.6 – Conservation Research

HPWD will seek opportunities to participate and partner with other groups conducting water conservation research and development.

Performance Standards

7.6a Number of water conservation research projects in which HPWD participates.

The HPWD Board of Directors have approved 1) Geophysical logging of water wells completed in the Dockum Aquifer; and 2) seven research projects totaling more than \$41,000 in grant funds.

7.6b Number of newsletter articles describing the research projects.

There were five newsletter articles describing/discussing the research projects.

MONTH	ARTICLE HEADLINE
April 2015	“Board Approves Study of Dockum Aquifer”
April 2015	“HPWD Board Now Accepting Proposals For Water Research”
June 2015	“Board Approves Funding For Research And Demonstration”
July 2015	“City of Abernathy Plans Dockum Test Well”
September 2015	“Legislation, Water Funding & HPWD Programs Discussed”

Management Objective 7.7 – Public Information

District staff will provide general water conservation information at suitable venues within the district each year. This may include exhibits at farm shows and information tables with publications at other meetings.

Performance Standards

7.7a Document the venues at which water conservation information is provided.

HPWD staff provided water conservation information at the following venues:

MONTH	VENUE	ATTENDANCE
October	Fair on the Square, Canyon TX	300
	Southwest Dairy Day, Friona TX	300
	Ag in the Bag, Lubbock TX	1,200
November	WaterWise Tailgate for Kids, Lubbock TX	??
December	Amarillo Farm and Ranch Show	Estimated 300
January	Hockley County Ag Conference, Levelland TX	80
	Caprock Crops Conference, Muncy TX	150
February	Hub of the Plains Ag Conference, Lubbock TX	70
	Cotton Conference, Hereford TX	19
March	High Plains Crop Consultants, Lubbock TX	150

MONTH	VENUE	ATTENDANCE
April	Regional Sorghum Meeting, Levelland TX	80
	Rainwater Harvesting Workshop, Levelland TX	22
	Rainwater Harvesting Workshop, Plainview TX	19
	Rainwater Harvesting Workshop, Muleshoe TX	17
	Rainwater Harvesting Workshop, Canyon TX	28
August	Rainwater Harvesting Tour, Amarillo/Canyon TX	12
	Rainwater Harvesting Tour, Brownfield/Lubbock	17
September	WaterWise Garden Tour, Lubbock TX	25
	Stratford TX Water Conference	20
	ESTIMATED TOTAL	2,809

7.7b Estimate the attendance at each venue. (See table 7.7a).

Management Objective 7.8 – Classroom Education

HPWD will promote water conservation education in schools within its service area by sharing such information with students. This includes sponsorship of the WaterWise™ conservation education program at schools in the district.

Performance Standards

7.8a Document the number of classroom presentations and number of students reached.

HPWD Education and Outreach staff gave ten presentations that reached 1,845 students in FY 2015. These included the annual Ag in the Bag, summer youth camps, and various classroom presentations.

WATERWISE™ PROGRAM:

HPWD also provides the Waterwise™ Conservation Education program to students each academic year. Although not part of the current management plan, approximately 2,238 students and 47 teachers participated in the Waterwise™ program during academic year 2014-2015. A description of the program is available at <http://getwise.org/Home/InstallationInstructions> or www.hpwd.org/urban

Management Objective 7.9 – HPWD Website

HPWD will provide information about groundwater availability, water conservation, and other subjects on its website.

Performance Standards

7.9a Document annual website traffic using an analytical program—such as Google Analytics * or other.

** HPWD staff began use of Google Analytics in May 2015. The Squarespace web design program does not allow users to trace statistics more than one year old.*

The HPWD website received 46,547 page views from November 2014 to October 2015. The interactive maps page continues to be the most popular content with 20.43 percent of the total page visits for October 2015.

HPWD also provides information about groundwater availability, water conservation and other topics through use of social media. Although not part of the current management plan, the social media platforms are also accessible via the HPWD website.

Social Media Platform	October 2014	September 2015	Change
Facebook	449 likes	470 likes	+21 page likes
Twitter	335 followers	561 followers	+ 226 followers
YouTube	1,296 all-time views	2,371 all-time views	+ 1,075 views

GOAL 8: RECHARGE ENHANCEMENT

A review of past work conducted by others indicates that this goal is not appropriate at the present time. Therefore, this goal is not applicable.

GOAL 9: PRECIPITATION ENHANCEMENT

This goal is not applicable.

GOAL 10: BRUSH CONTROL

Existing programs administered by the U.S. Department of Agriculture Natural Resources Conservation Service (USDA-NRCS) are addressing this issue. This activity is not cost-effective nor applicable for the District at this time. Therefore, this goal is not applicable.

GOAL 11: DESIRED FUTURE CONDITIONS OF THE AQUIFERS

Management Objective 11.1 – Water Use Reporting

The HPWD Board of Directors adopted a desired future conditions (DFC) goal that requires water users adhere to a yearly allowable production rate (APR). To facilitate compliance, HPWD will provide a variety of reporting options to well owners and operators.

Performance Standards

11.1a Number of water users reporting usage in FY 2015. (N/A)

11.1b Type of reporting methods used (*How was water use reported?*) (N/A)

11.1c Reporting by count of water user group (i.e. number of agriculture, industrial, municipal, etc.) (N/A)

These management objectives were not applicable in FY 2015 since the HPWD rules do not require water use reporting until January 2016.

Management Objective 11.2 – Estimating Annual Usage

Calculating annual groundwater use is necessary for monitoring progress toward achieving the desired future conditions. Although a regional groundwater model provides estimate of usage to meet that goal, a more specific local estimate may increase our understanding of the usage and corresponding changes in volume.

Performance Standards

11.2a Estimate total usage within the district using reported data. (N/A)

11.2b Compare estimated annual usage to data from the Ogallala Aquifer Groundwater Availability Model. (GAM). (N/A)

These management objectives were not applicable in FY 2015 since the HPWD rules do not require water use reporting until January 2016.

A LOOK BACK AT FISCAL YEAR 2015



County Advisory Committee meeting.



Whiteface students discuss winning science fair entry at HPWD Board of Directors meeting.



Water Taste Test at Wolforth Water Expo.



Kody Bessent speaks at TAGD Groundwater Summit.



Ray Eads visits with a producer at the High Plains Irrigation Conference in Amarillo.



Adeline Fox discusses rainwater harvesting at the Levelland workshop in April.

