













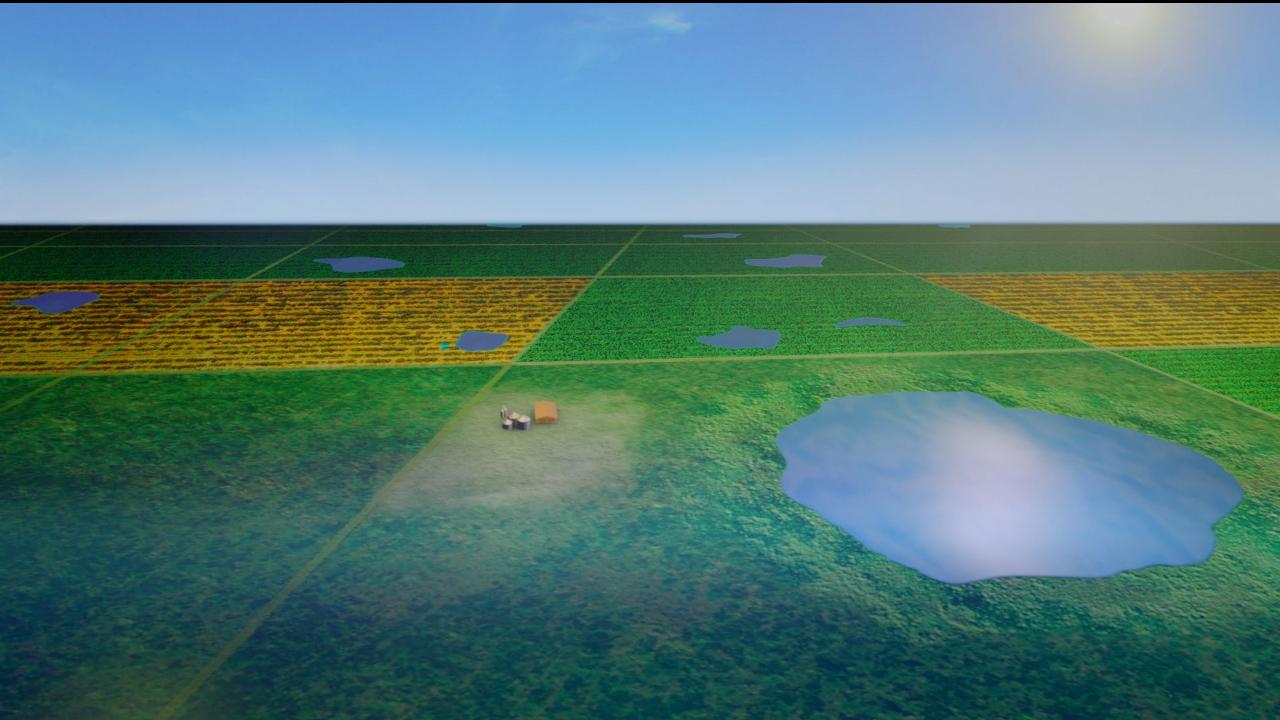
## WHAT ARE PLAYAS?

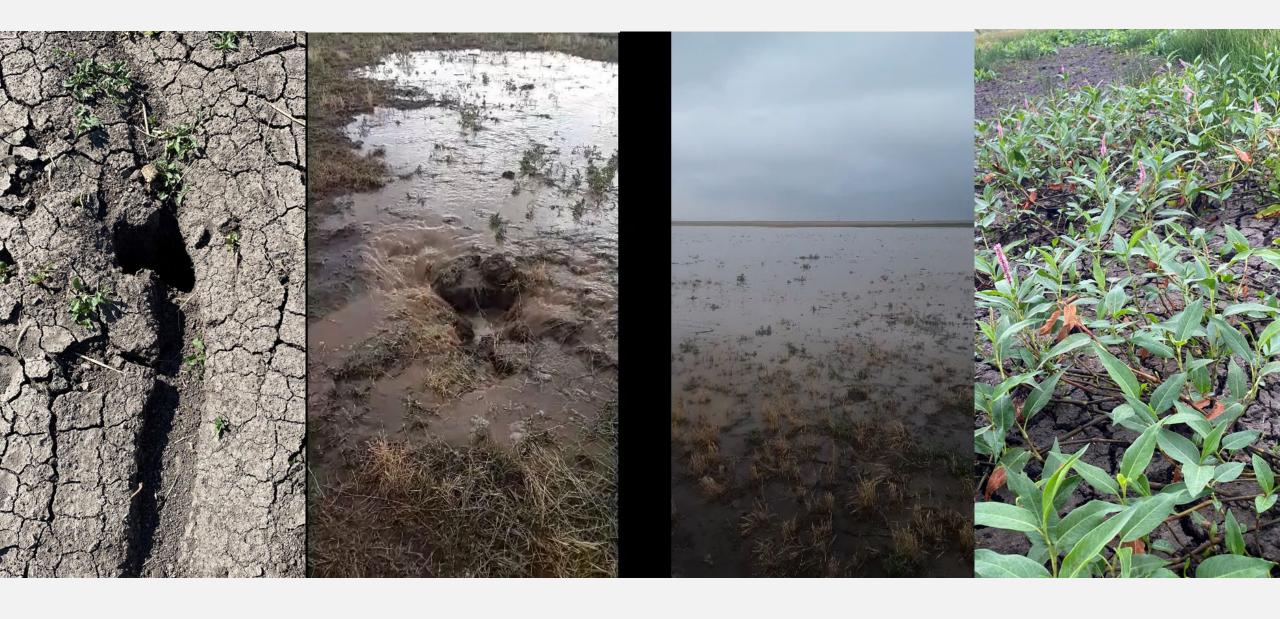
## **PLAYAS**

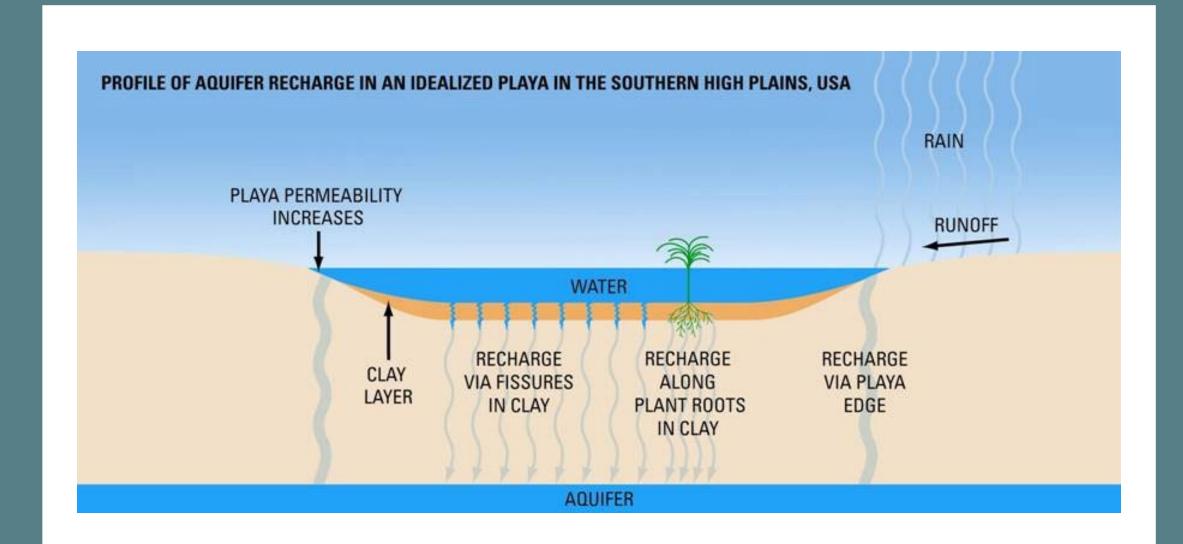
- Great amounts of diversity when wet
  - Plants 350 species
  - Animals
    - Birds 185 species
    - Mammals 37 species
    - Amphibians 13 species
    - Invertebrates 60+ species
- Dry periods are vital to their function





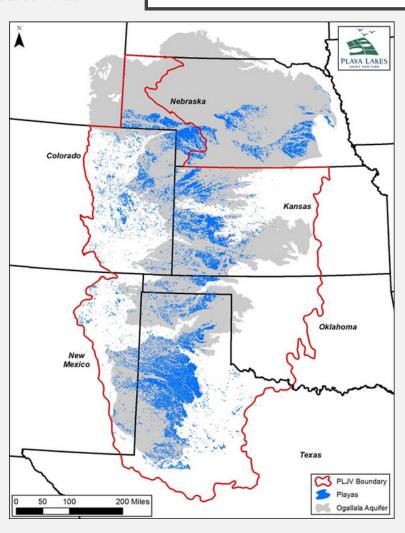






### PLAYAS AND GROUNDWATER

Source: PLJV



Recharge of aquifers associated with playas is slow 10-50 years

Rate of recharge through playas is 10-100x greater than through other areas

Healthy playas ensure we put cleaner water into the aquifer

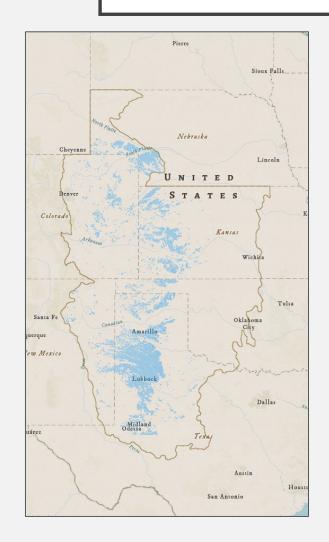
The Ogallala is compartmentalized

Water flowing through your playa benefits your wells

3" of recharge through a 4-acre playa produces 326,000 gallons of water

Enough to support a family of 4 for 2 years

## PLAYAS IN TEXAS

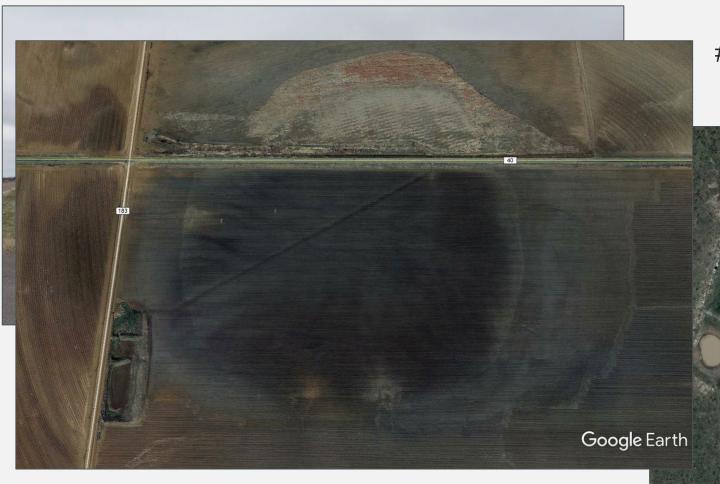


STATE	NUMBER	AVERAGE SIZE (Ac)	RANGE (Ac)
Colorado *	8,047	5.5	0.01 - 248
Kansas	22,045	3.7	0.08 - 464
Nebraska	21,900	1.2	0.01 - 79.5
New Mexico *	2,231	14.3	0.04 - 1,241
Oklahoma *	2,886	4.7	0.01 - 600
Texas	23,041	17.0	0.01 - 841

\* Playas were mapped using mostly SSURGO and to omit many small playas compared with Nationa other states (NE, KS, TX).

4,080 functional 5,631 at risk 13,326 not functional

## **THREATS**



#I existing impact today is pits

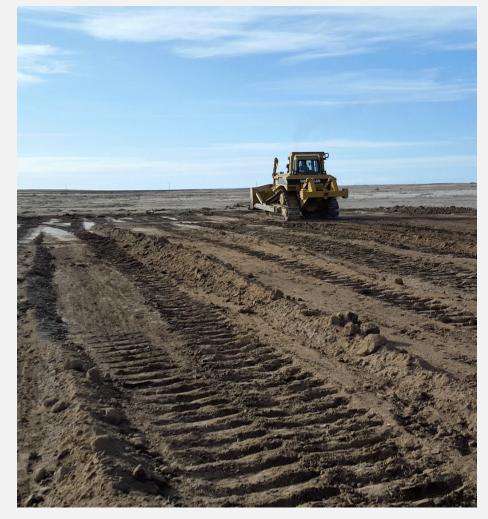
Something we can remedy easily, quickly

diment accumulation



### **TXPCI PROGRAM**

- Partnership created in 2015
- Pit backfilling in grass buffered playas and/or grass buffer plantings
- Producer / landowner friendly program
  - TxPCI pays 100% cost of restoration
  - We hire and pay the contractor directly
  - Pay one-time incentive payment (\$80/acre)
  - 10-year agreement attached prevents future pit creation





## TXPCI – HOW WE OPERATE

- Use satellite imagery to ID potential projects
- Collect landowner contact information
- Mail informational flyers
- Make site visits and produce a contract for interested parties
- Fix the playa







### SUCCESS AND PROGRESS



- 83 restoration projects completed
  - 3,425 playa and saline lake acres restored + equal amount of surrounding grassland buffer.
    - 243 Million Gallons of clean, groundwater recharge annually.
  - 20 of these projects (609 acres) within the last year
- Committed \$223,000 directly to landowners as incentive payments
- Additional 62 acres in queue









## SUCCESS AND PROGRESS



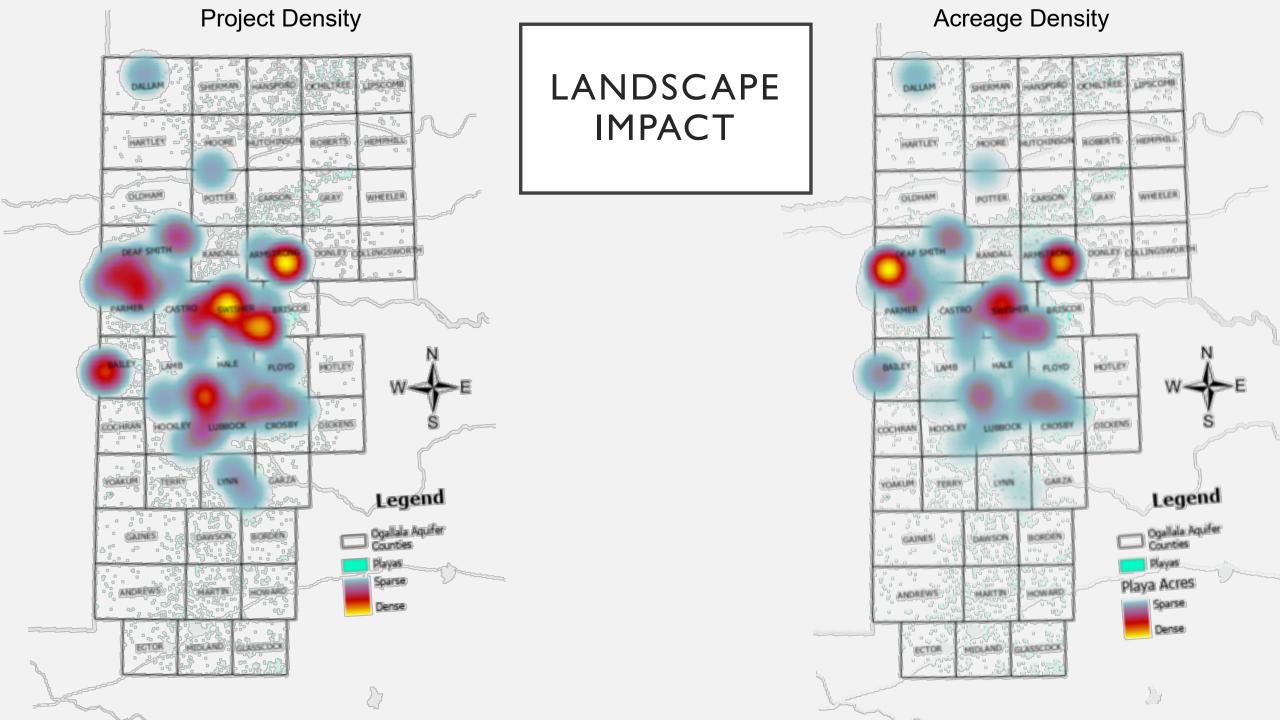
Understanding playas

Project overview

Impact on the landscape

Public engagement

Future directions



## **PARTNERSHIPS**



























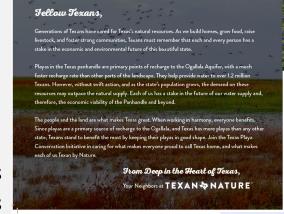
## **PUBLIC ENGAGEMENT**



Playa field days



# Targeted mailings to landowners





—Laura Bush Founder, Texan by Nature Former First Lady of the United States

#### Your playa is the key to the future of water in the Panhandle

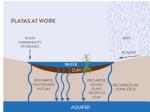
HELP PRODUCERS, COMMUNITIES, AND WILDLIFE CONTINUE TO THRIVE.

The Texas Playa Conservation Initiative needs the help of landowners across the panhandle as they restore playa wetlands, allowing them to recharge millions of gallons of water to the Ogallala.

- YOU HAVE A LINK IN THE CHAIN. Playas contain unique soil layers that provide exists all Playing for account water.
- YOU CAN SAYE TEXAS WATER. Healthy playas are important for recharging the Ogallala Aquifer.
- YOUR WATER STAYS HERE. Flow rates within the aquifer are extremely slow 0.5-1 mile per IO years. This means the water you save today will be available for future generations of Texans.
- YOU CAN HELP. Restoring playas is easy, and costs landowners nothing.
- YOU ARE APPRECIATED. Landowners even receive a "thank you" payment for their participation.

CONTACT THE PROGRAM TODAY TO SEE IF YOU HAVE PLAYAS ON YOUR LAND THAT QUALIFY
PLAYASWORKFORTEXANS.COM

Rachel Fern, Toxas Parks and Wildlife, 737-218-3955 or rachel.fern@tpwd.texas.gov



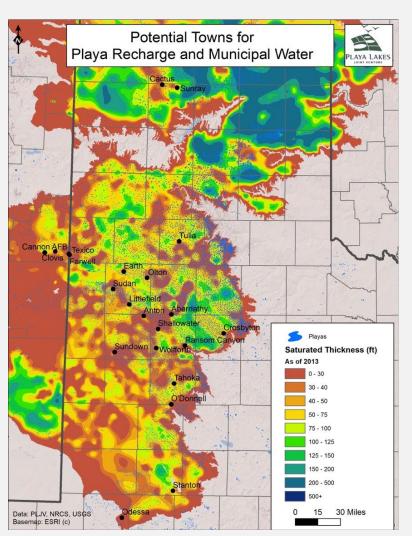
TEXAN NATUI

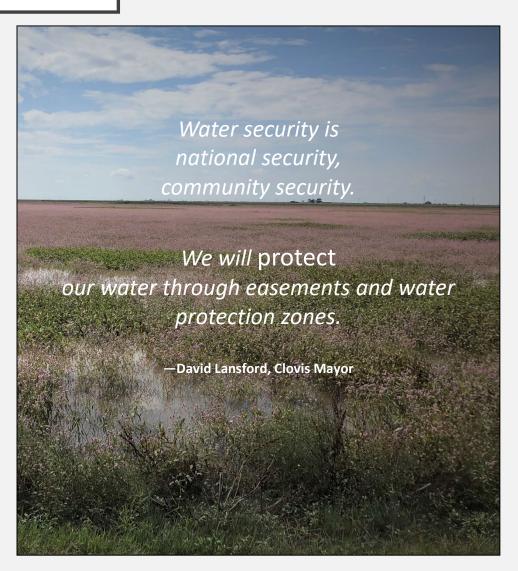
## INTO THE FUTURE

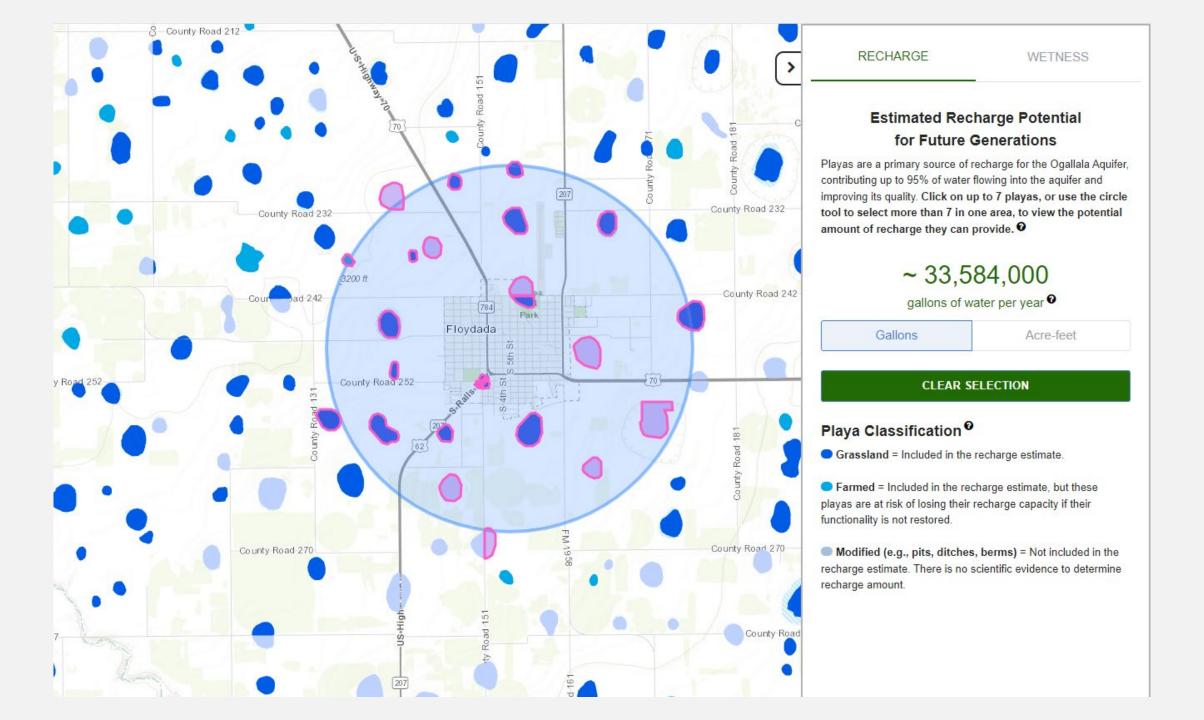
Clovis, NM Groundwater success story



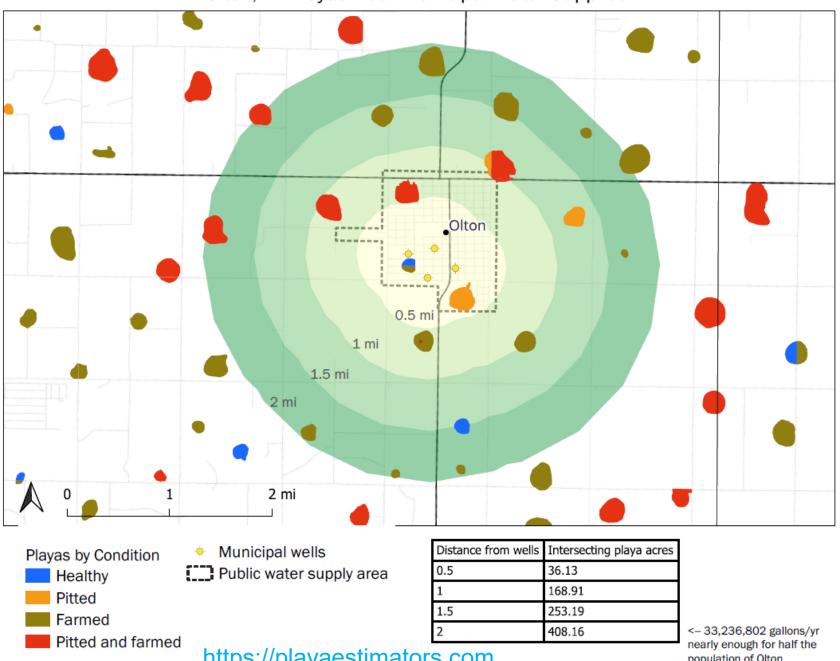
Partnerships with municipalities key







#### Olton, TX Playas Near Municipal Water Supplies



https://playaestimators.com

population of Olton

## SUCCESS STORY

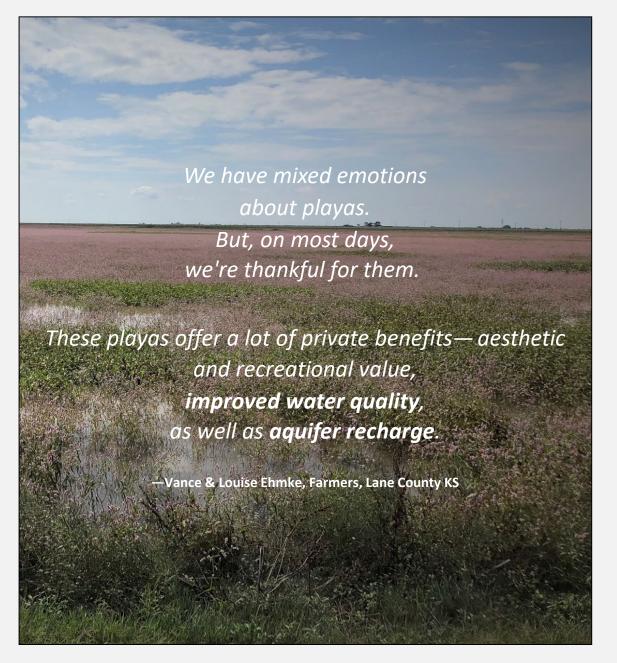


2022 Recipient

LONE STAR

LAND
STEWARD





## Take-homes

#1

Playas are a major source of recharge to aquifer

#2

Recharge cannot make up for losses from irrigation

#3

It is enough to support rain-fed systems, grazing operations and municipalities

#4

If you conserve a playa, that water is yours

#5

Healthy playas with buffers improve YOUR water quality

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Clean Water for Texans & Wildlife