I. ADMINISTRATION

THIS MEETING IS OPEN TO THE PUBLIC

- Noticed in:
  - Scottsbluff Star Herald
  - North Platte Telegraph
  - Sidney Sun-Telegraph
  - Kearney Hub
  - The Grand Island Independent

PARKING LOT OF 2ND INCREMENT TOPICS

- Drought Conditions
- Revisit the order of goals
- Economic & Social Impacts
- Oversight
- Conjunctive Management (ground AND surface)
- Food & Clean water for future generations
- Monitor Progress (score sheet)
- Storage Capacity & Maintenance
- Have we jumped from fully to over?
- Timeline; number of increments

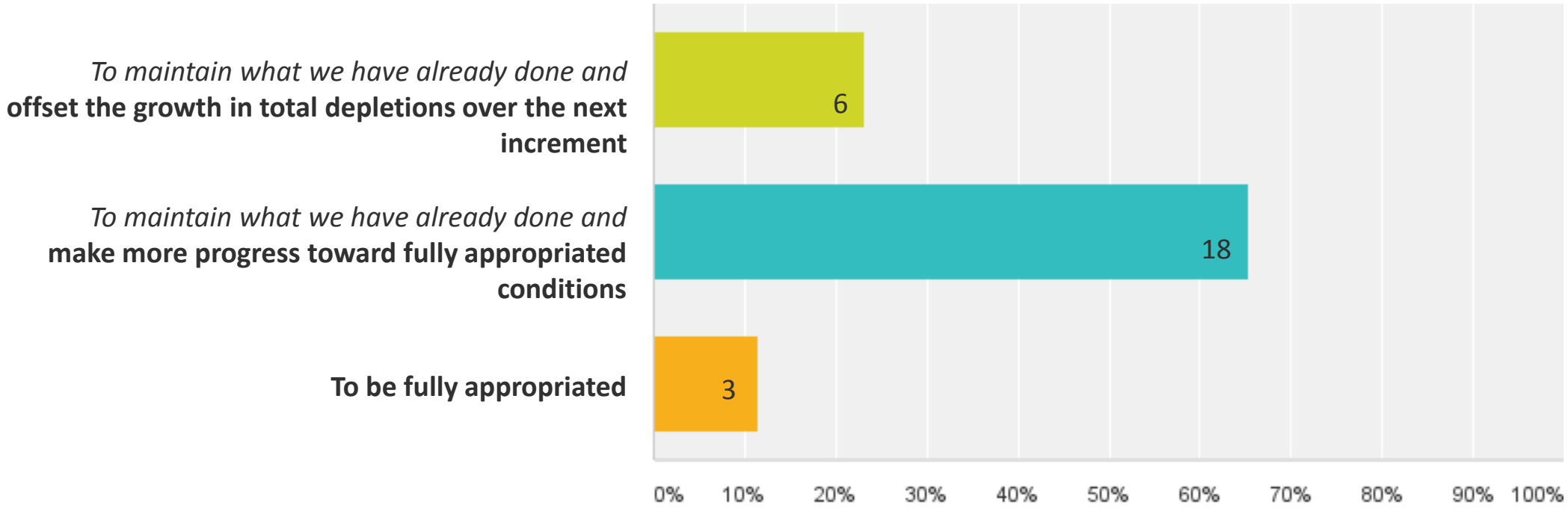
REVIEW OF THE SPG DECISION-MAKING PROCESS

- The first goal is consensus
- A majority vote is the determining factor for all sections of the plan.
- If the group cannot reach a majority, the DNR and the NRDs will work together to resolve the disputed issues.
- If the SPG is unable to come to consensus by June 2018, the DNR and the NRDs will work together to resolve the disputed issues and create a final plan by August 2018.

II. SECOND INCREMENT DISCUSSION

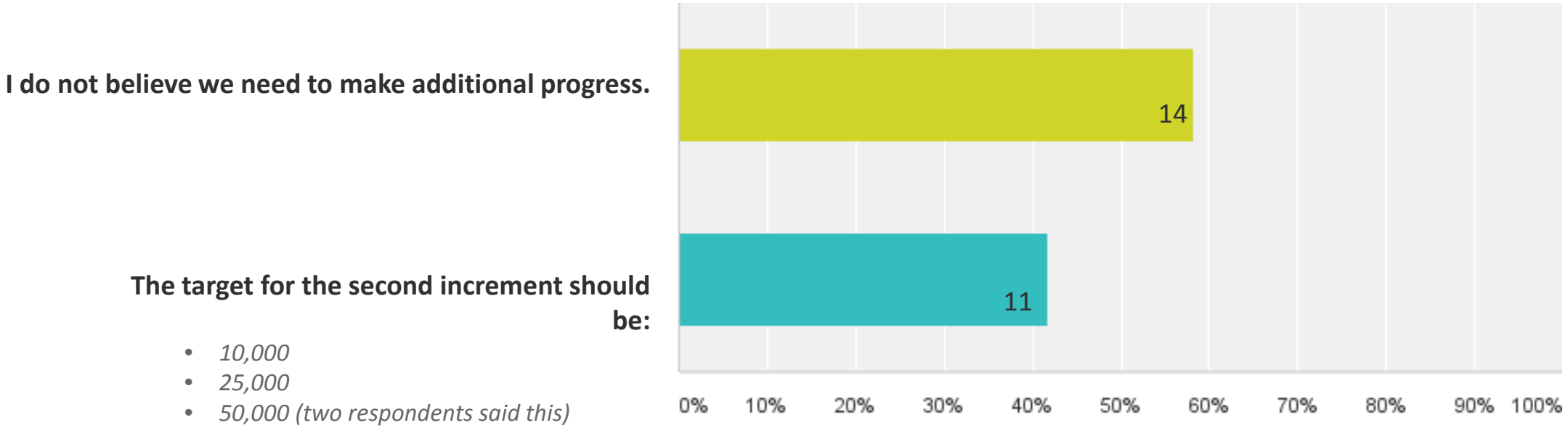
Q1: What should the overall intent of the Second Increment Plan be?

Answered: 27 Skipped: 0



Q2: The benefit of activities undertaken during the first increment to offset post-1997 use depletions are estimated to be in the range of 33,000-110,000 acre-feet annually. What is a reasonable target for additional progress during the second increment?

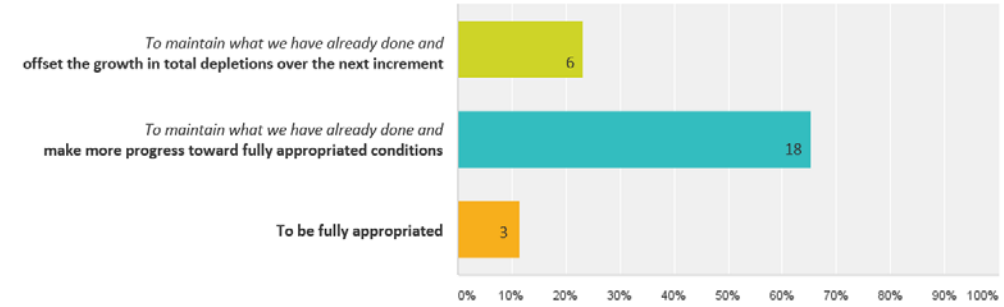
Answered: 25 Skipped: 2



- *10,000*
- *25,000*
- *50,000 (two respondents said this)*
- *120,000*
- *150,000*
- *100,000-150,000*
- *33,000-110,000*

Q1: What should the overall intent of the Second Increment Plan be?

Answered: 27 Skipped: 0



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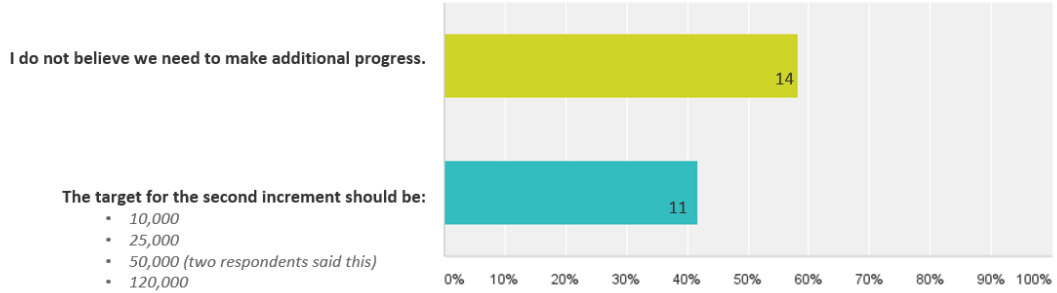
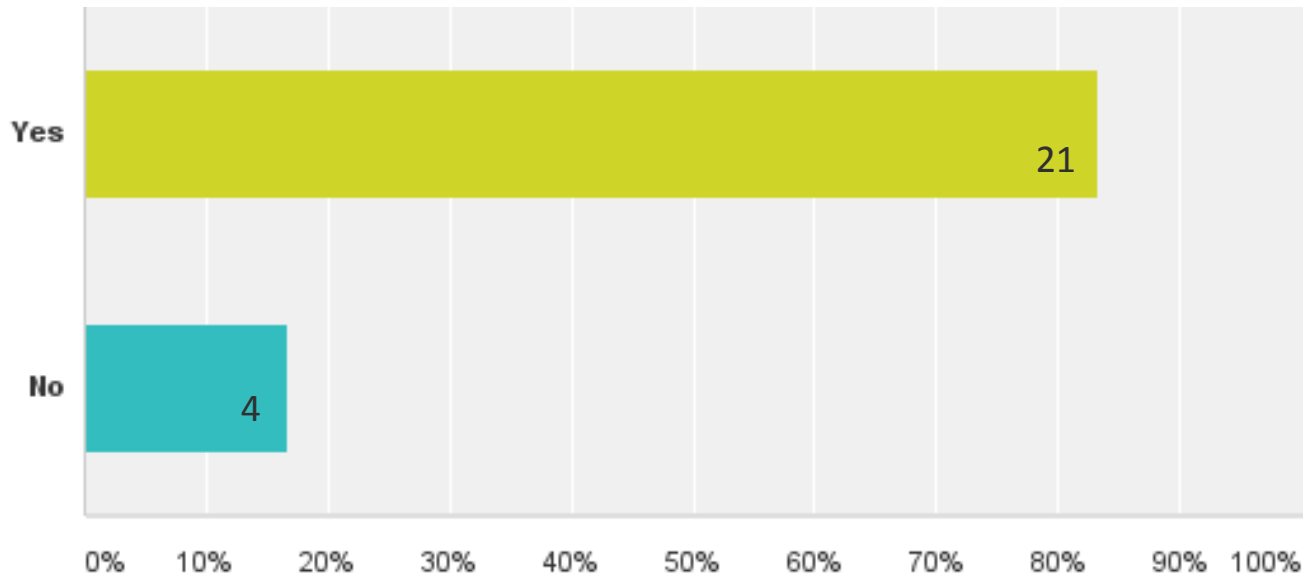


- *10,000*
- *25,000*
- *50,000 (two respondents said this)*
- *120,000*
- *150,000*
- *100,000-150,000*
- *33,000-110,000*

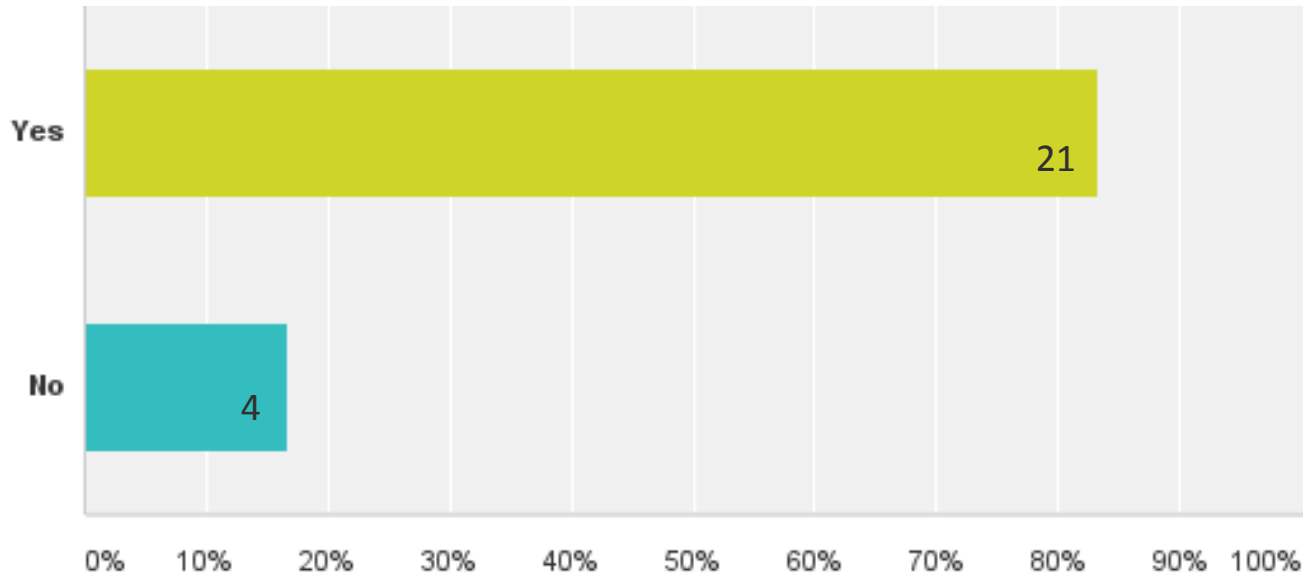
Q3: Does the first increment plan appropriately address the call to maintain the economic viability of the river basin?

Answered: 25 Skipped: 2



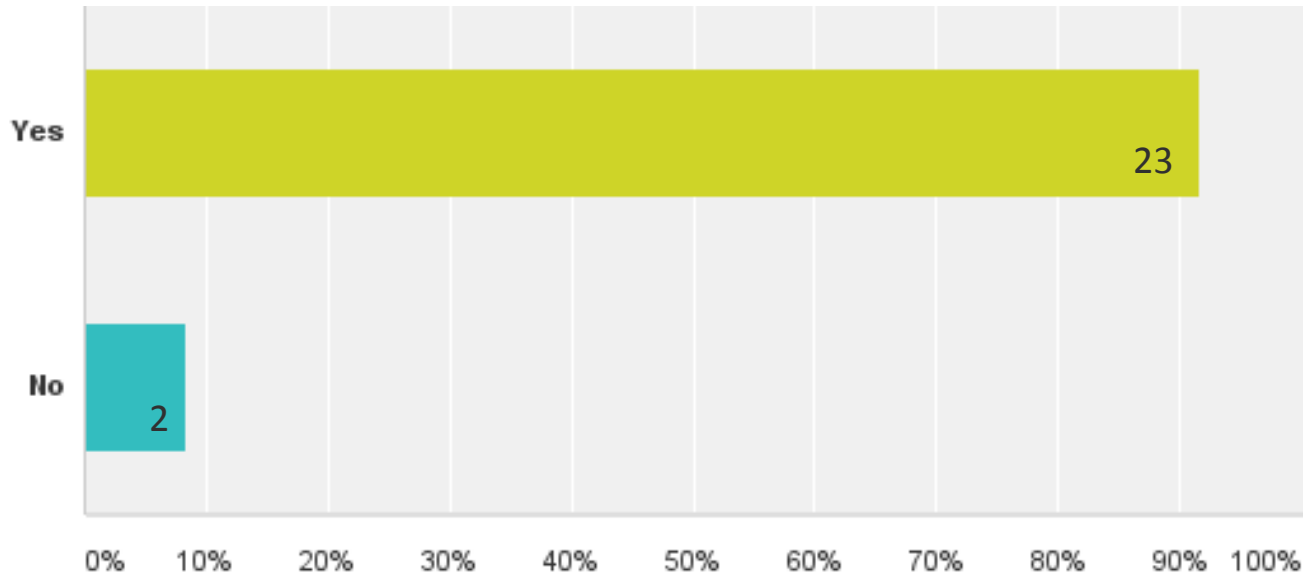
Q4: Does the first increment plan appropriately address the call to maintain the social and environmental health of the river basin?

Answered: 25 Skipped: 2



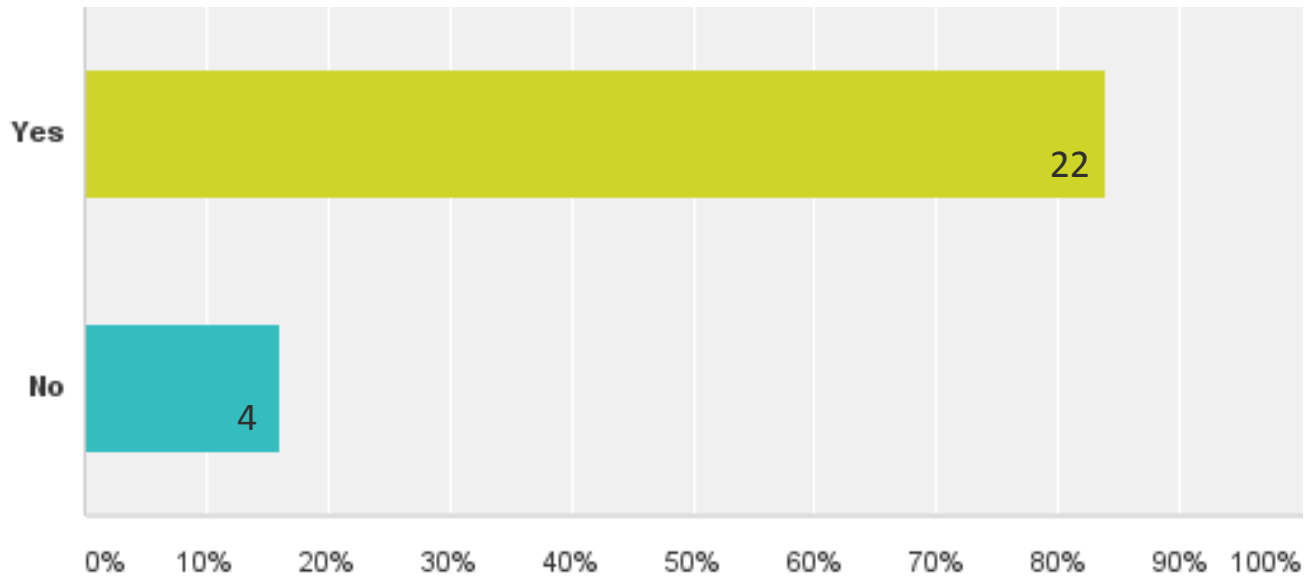
Q5: Does the first increment plan appropriately address the call to maintain the safety of the river basin?

Answered: 25 Skipped: 2



Q6: Does the first increment plan appropriately address the call to maintain the welfare of the river basin?

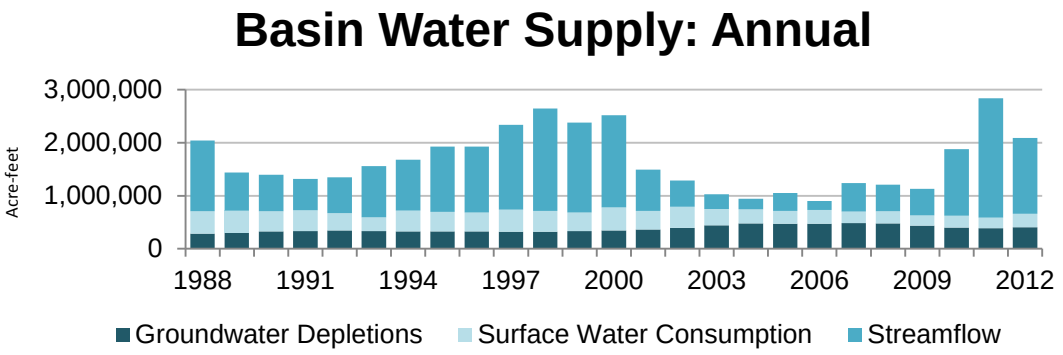
Answered: 26 Skipped: 1

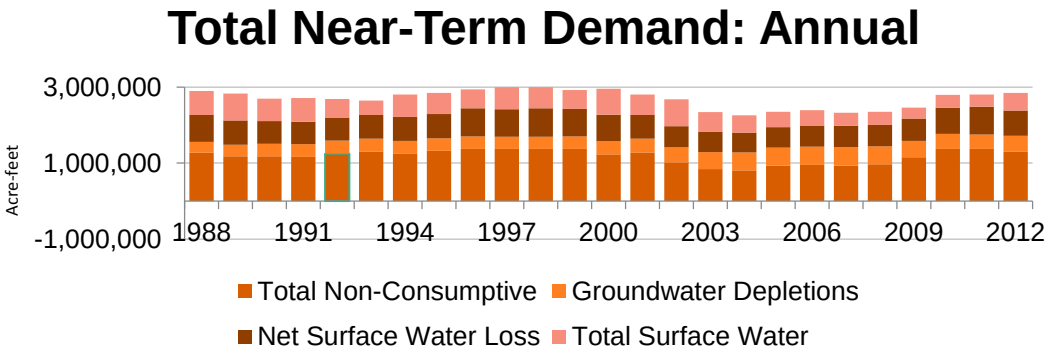


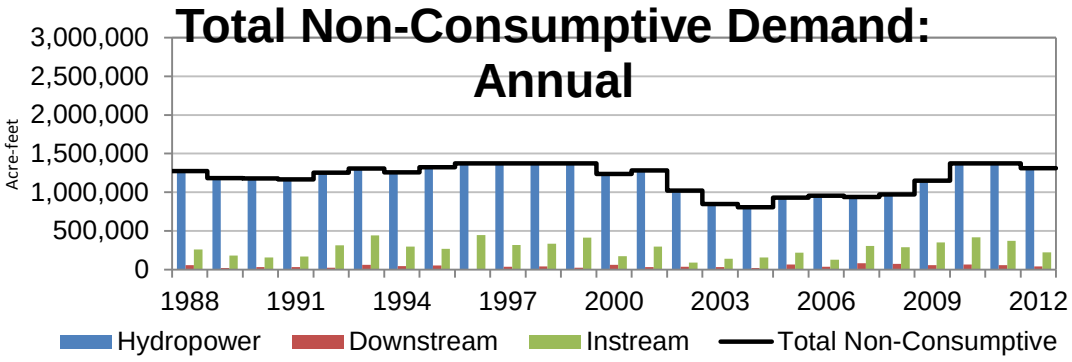
III. BACKGROUND

Overview

Draft INSIGHT analysis of the Upper Platte River above Odessa.
Current as of 3/1/2017.







Balance =

Basin Water Supply – Total Demands

Basin Water Supply =

Streamflow +
Surface Water Consumption +
Groundwater Depletions

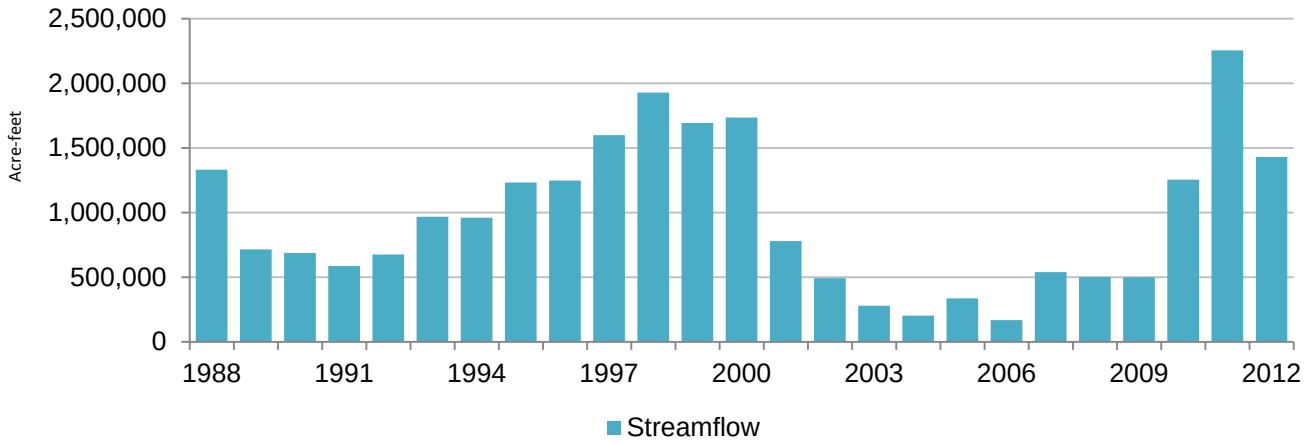
- SUPPLY-

Streamflow

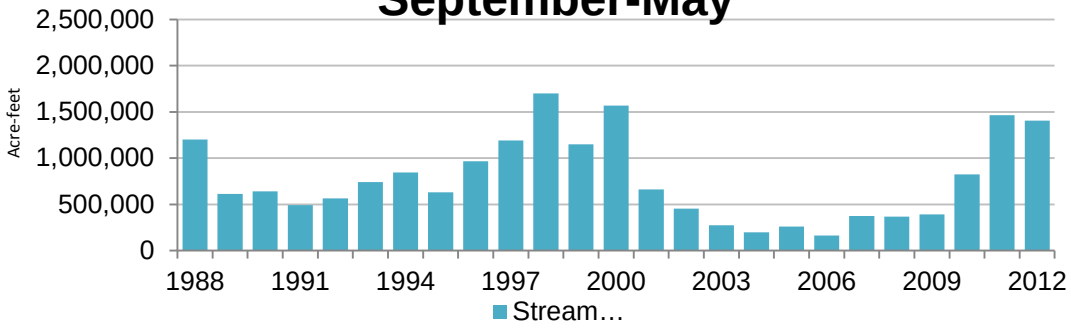
Platte River Above Odessa

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

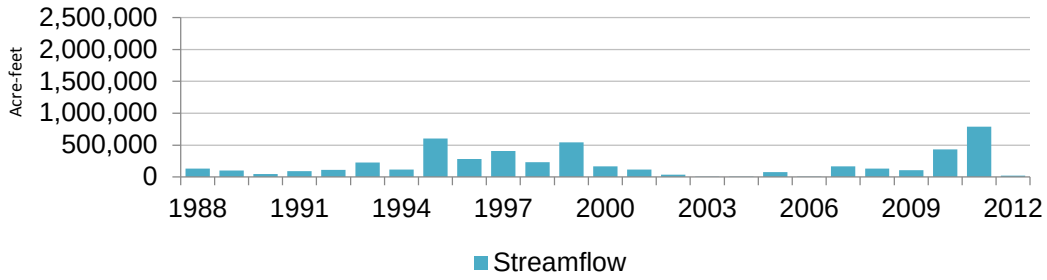
Annual



September-May



June-August



- SUPPLY-

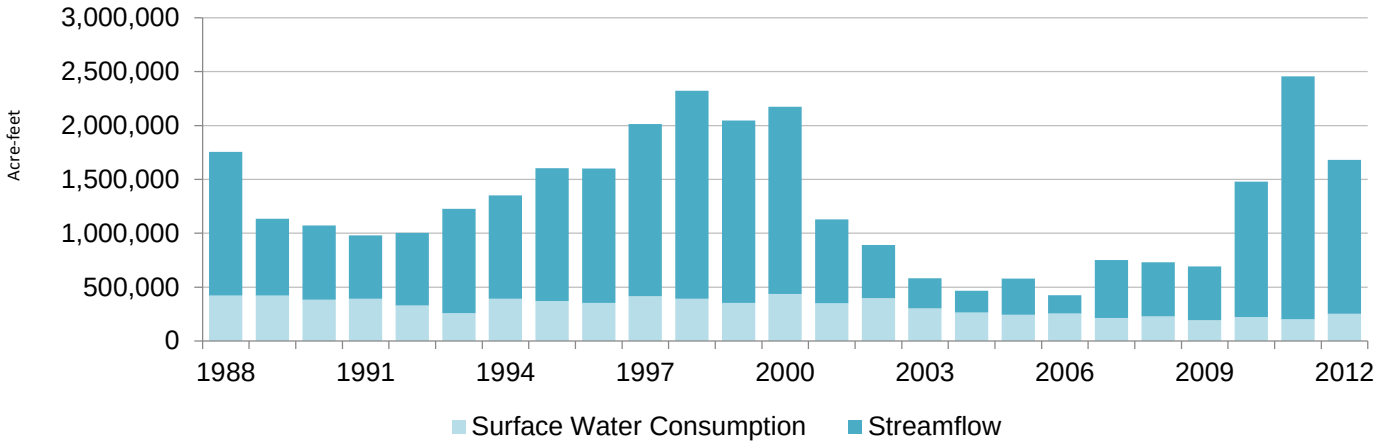
Streamflow + Surface Water Consumption

Platte River Above Odessa

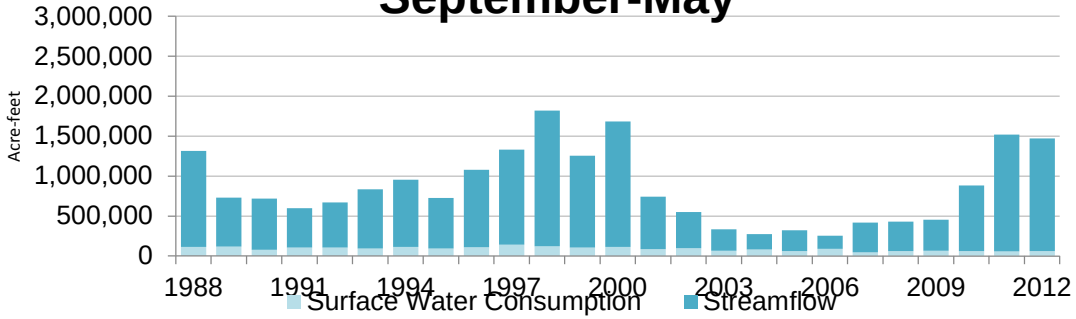
DRAFT

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

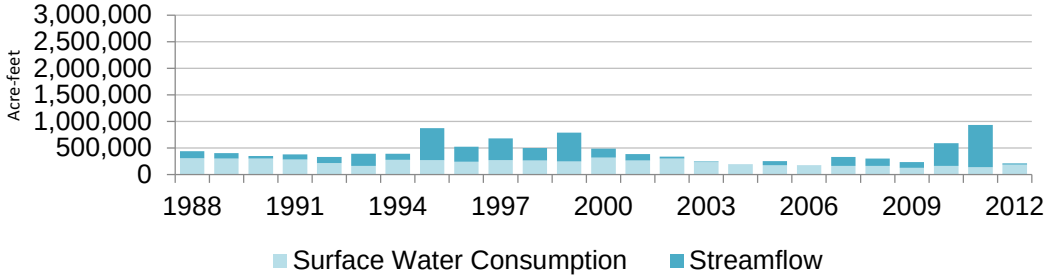
Annual



September-May



June-August



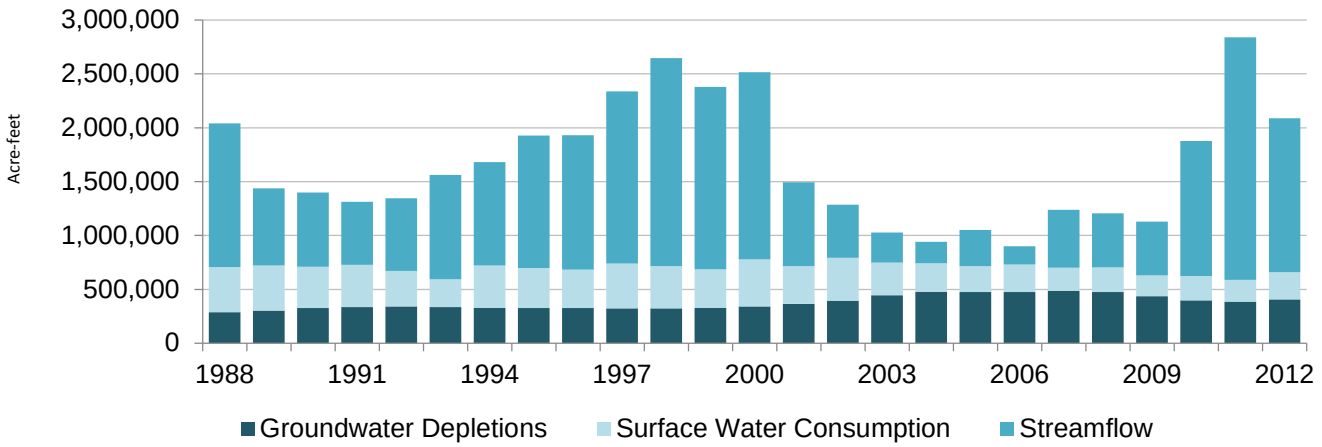
BASIN WATER SUPPLY

Groundwater Depletions + Surface Water Consumption + Streamflow

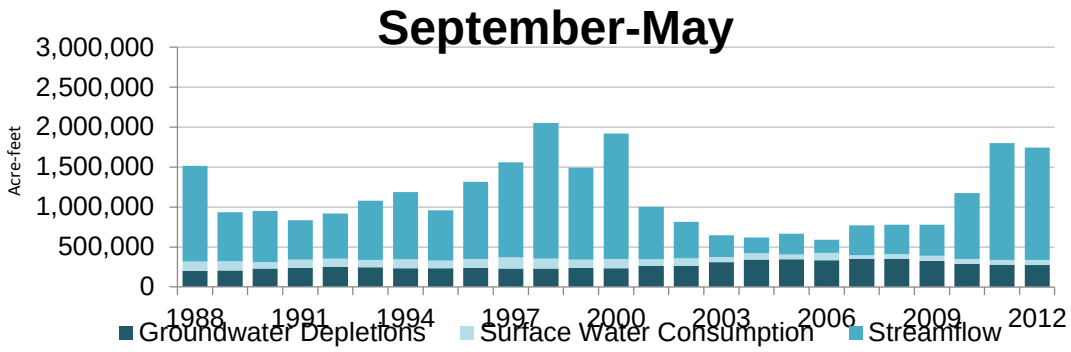
Platte River Above Odessa

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

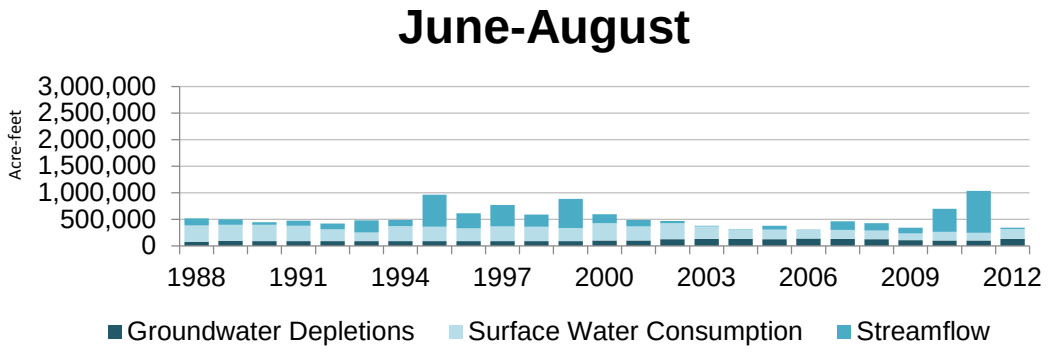
Annual



September-May



June-August



Total Demand =

Surface Water Demand +
Net Surface Water Loss + Groundwater Demand +
Non-Consumptive Use Demand

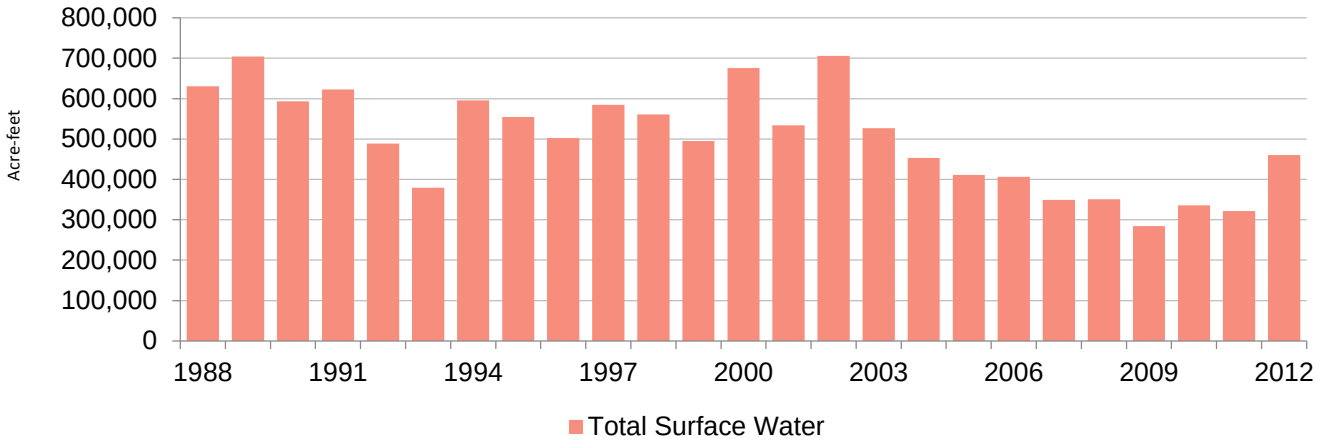
- DEMAND -

Total Surface Water Demand

Platte River Above Odessa

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

Annual



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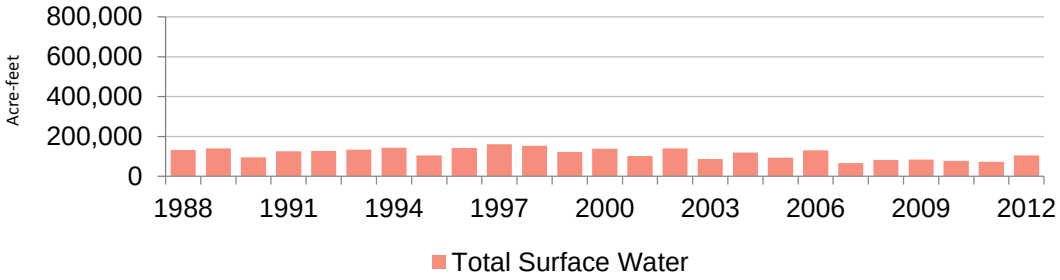
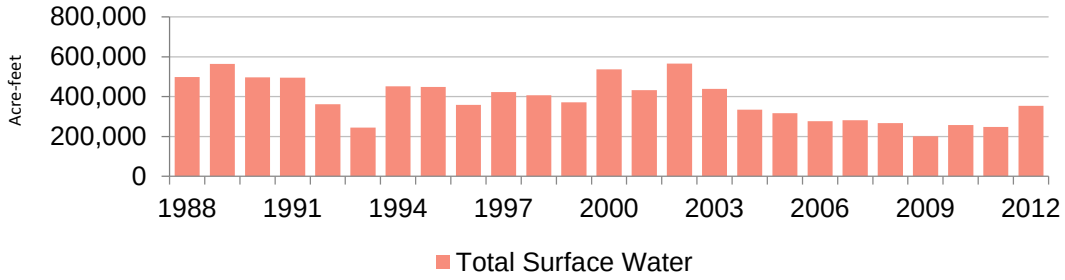


June-August



- DEMAND -

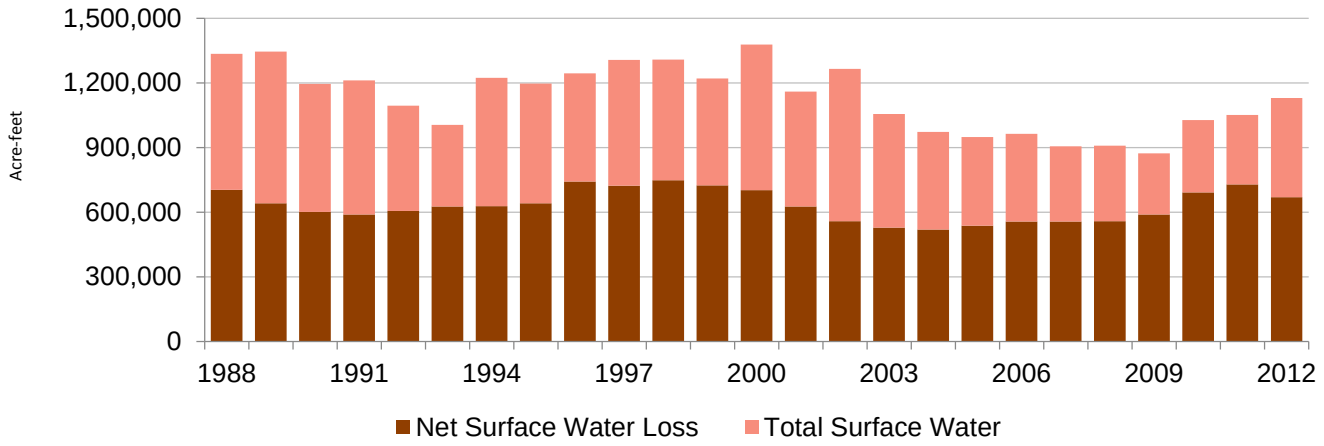
Total Surface Water Demand + Net Surface Water Loss

Platte River Above Odessa

DRAFT

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

Annual



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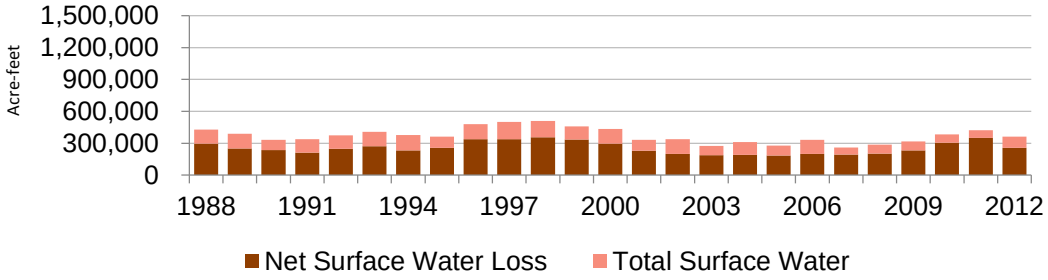

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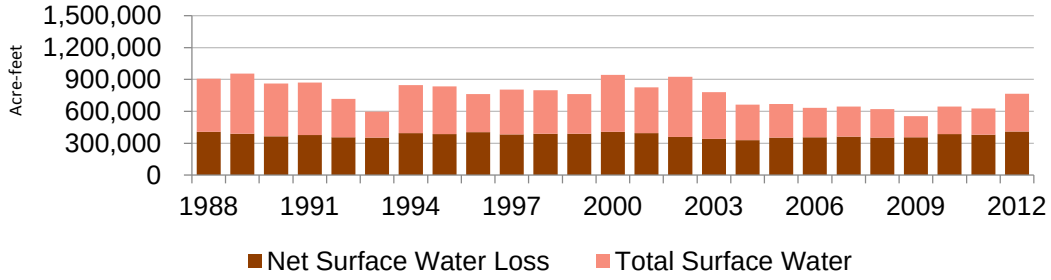
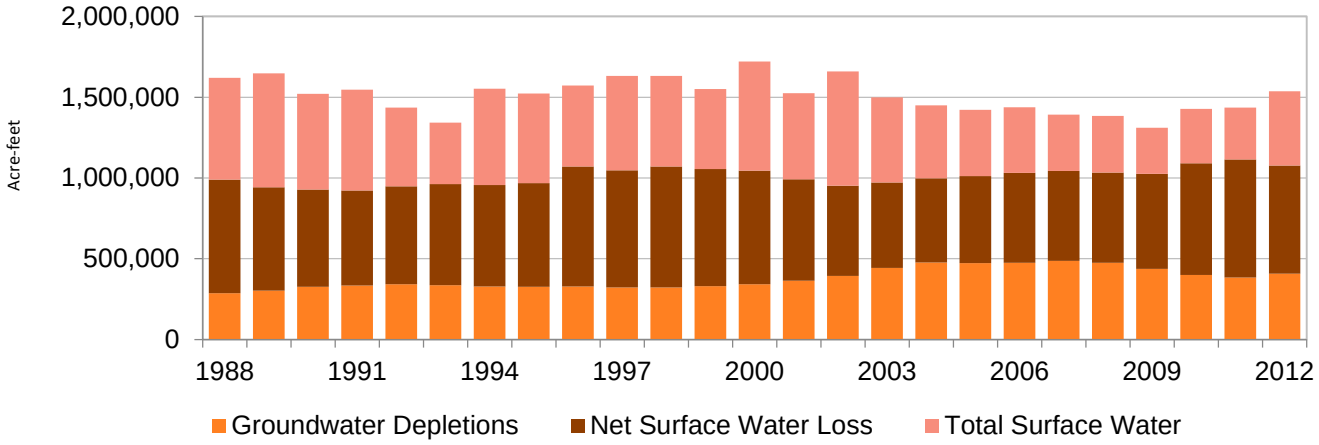


- DEMAND -

Total Surface Water Demand + Net Surface Water Loss + Groundwater Depletions

Platte River Above Odessa

Annual



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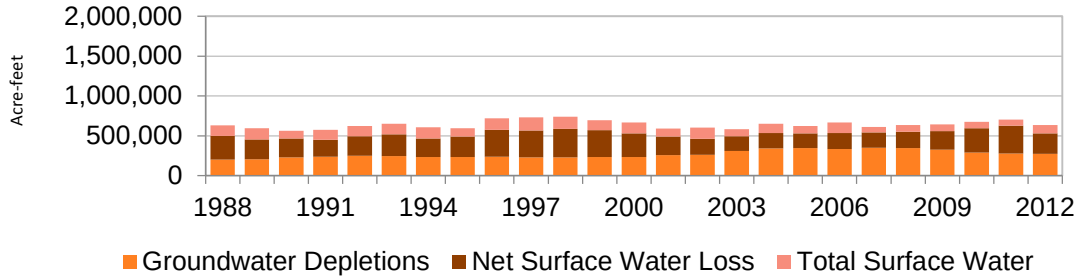
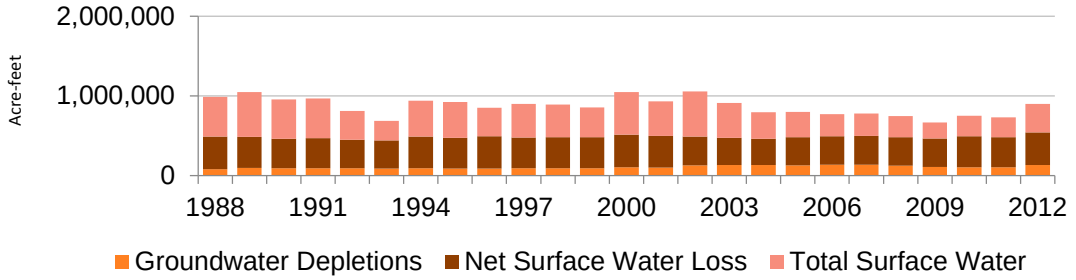


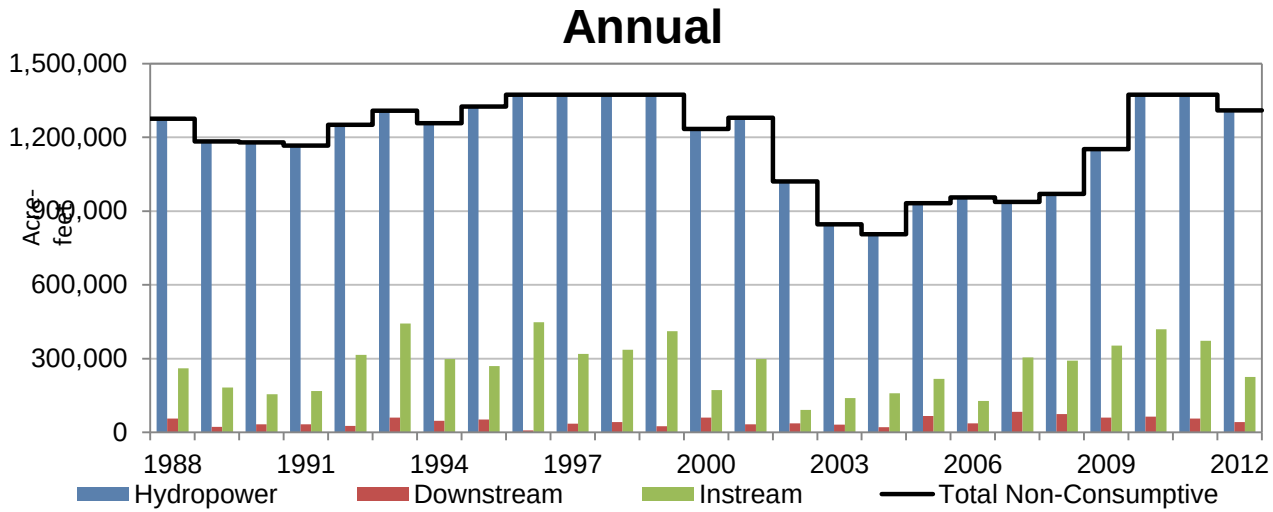
June-August



- DEMAND -

Non-Consumptive Demands

Platte River Above Odessa



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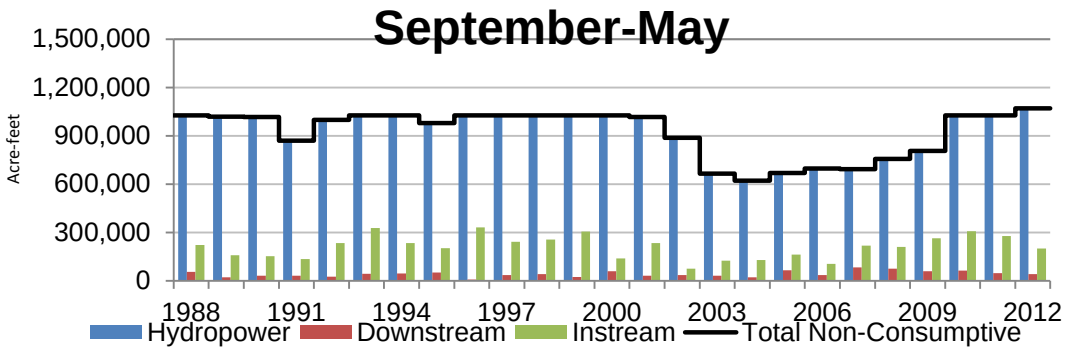
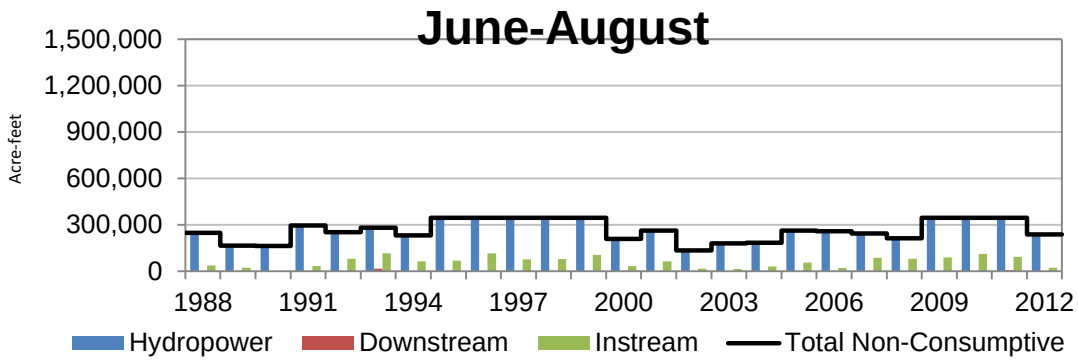




- DEMAND -

TOTAL NEAR-TERM

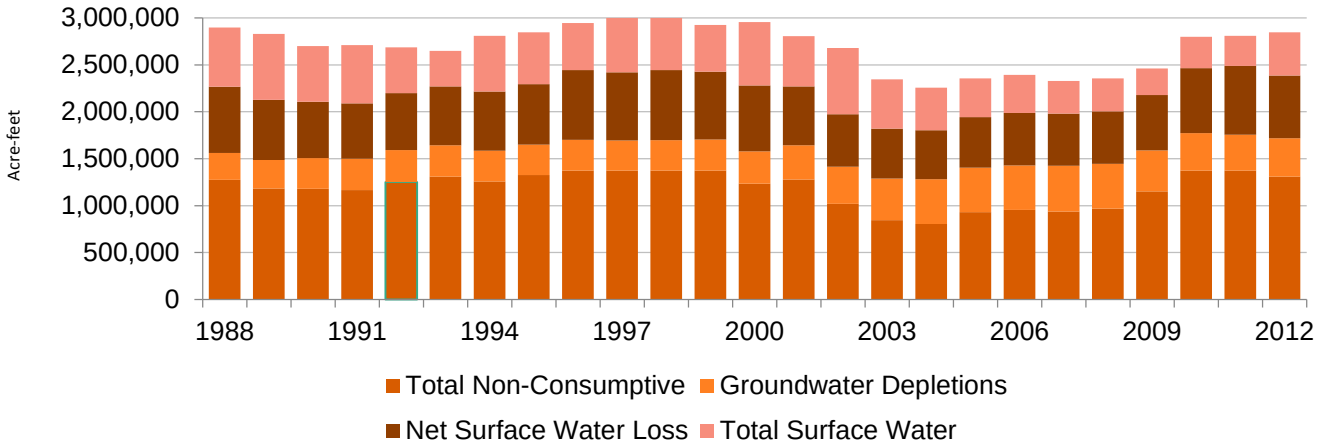
Net Surface Water Loss + Total Surface Water Demand + Groundwater Depletions + Total Non-consumptive Demand

Platte River Above Odessa

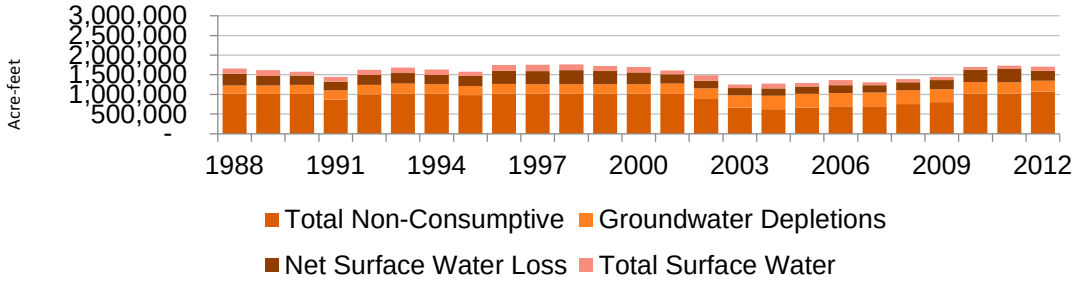
DRAFT

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

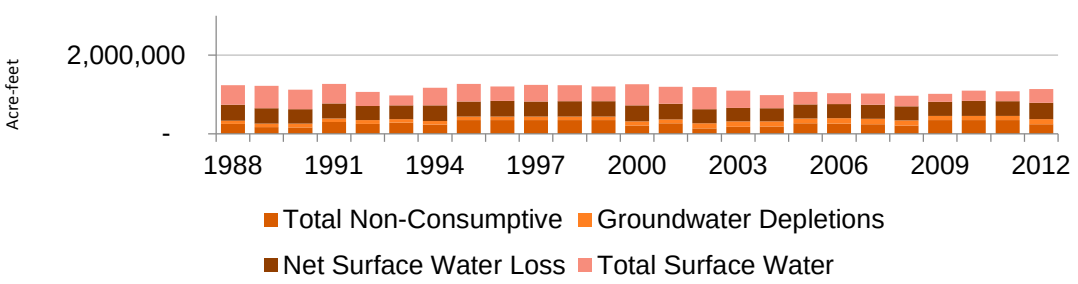
Annual



September-May



June-August



Balance =

Basin Water Supply – Total Demands

Basin Water Supply =
Streamflow +
Surface Water Consumption +
Groundwater Depletions

Total Demands =
Surface Water Demand +
Net Surface Water Loss +
Groundwater Demand +
Non-Consumptive Use Demand

- BALANCE -

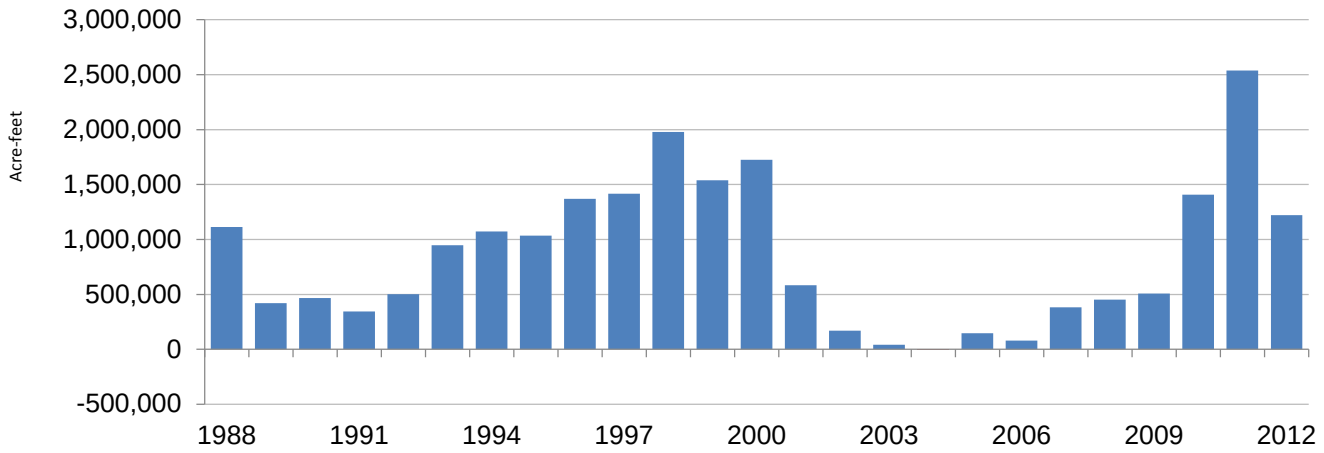
Basin Water Supply –
(Surface Water Demands + Groundwater Demands)

Platte River Above Odessa

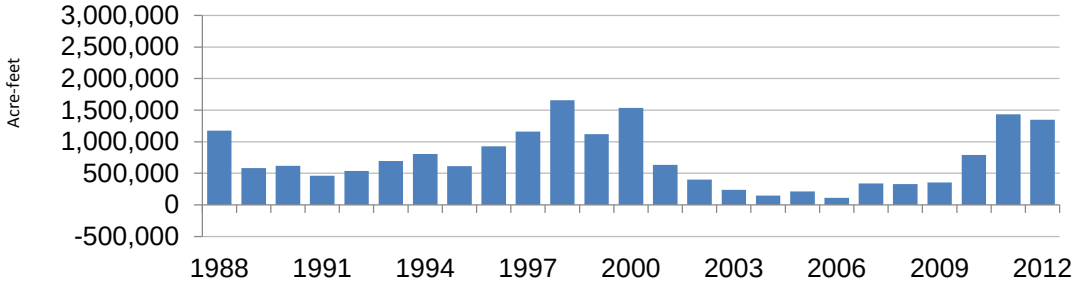
DRAFT

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

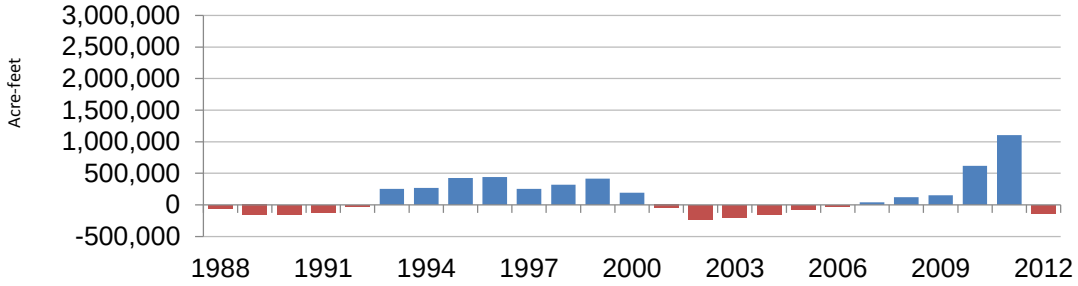
Annual



September-May



June-August



- BALANCE -

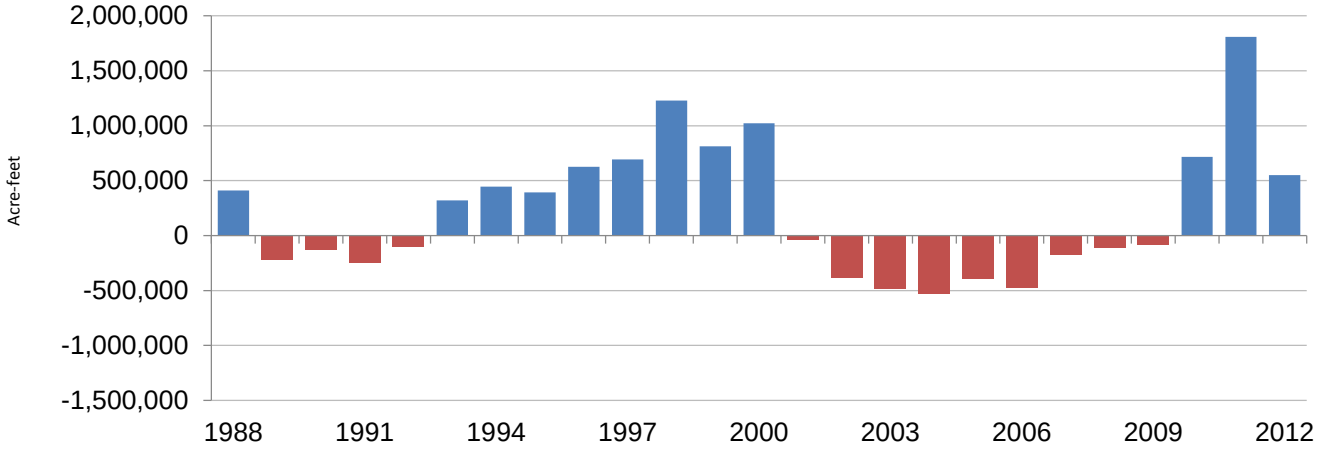
Basin Water Supply –
(Surface Water Demands + Near-Term Groundwater Demands + *Net Surface Water Loss*)

Platte River Above Odessa

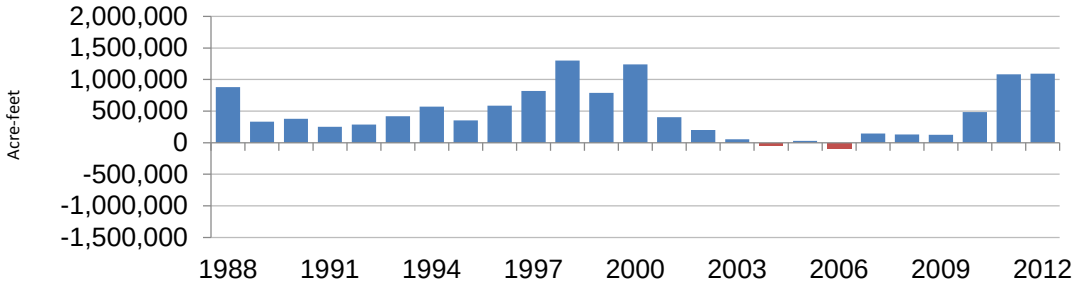
DRAFT

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

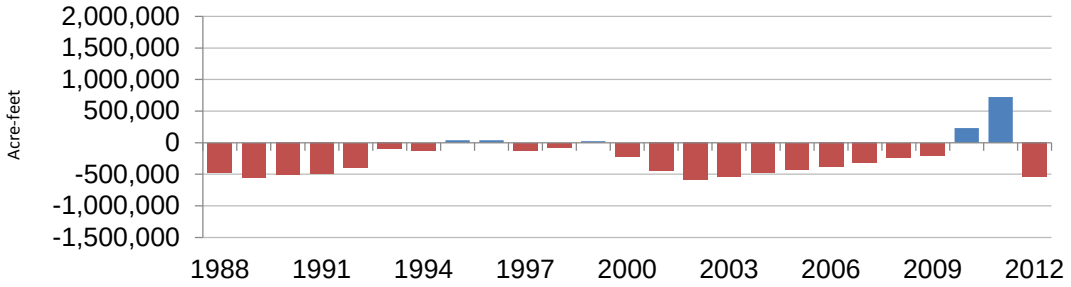
Annual



September-May



June-August



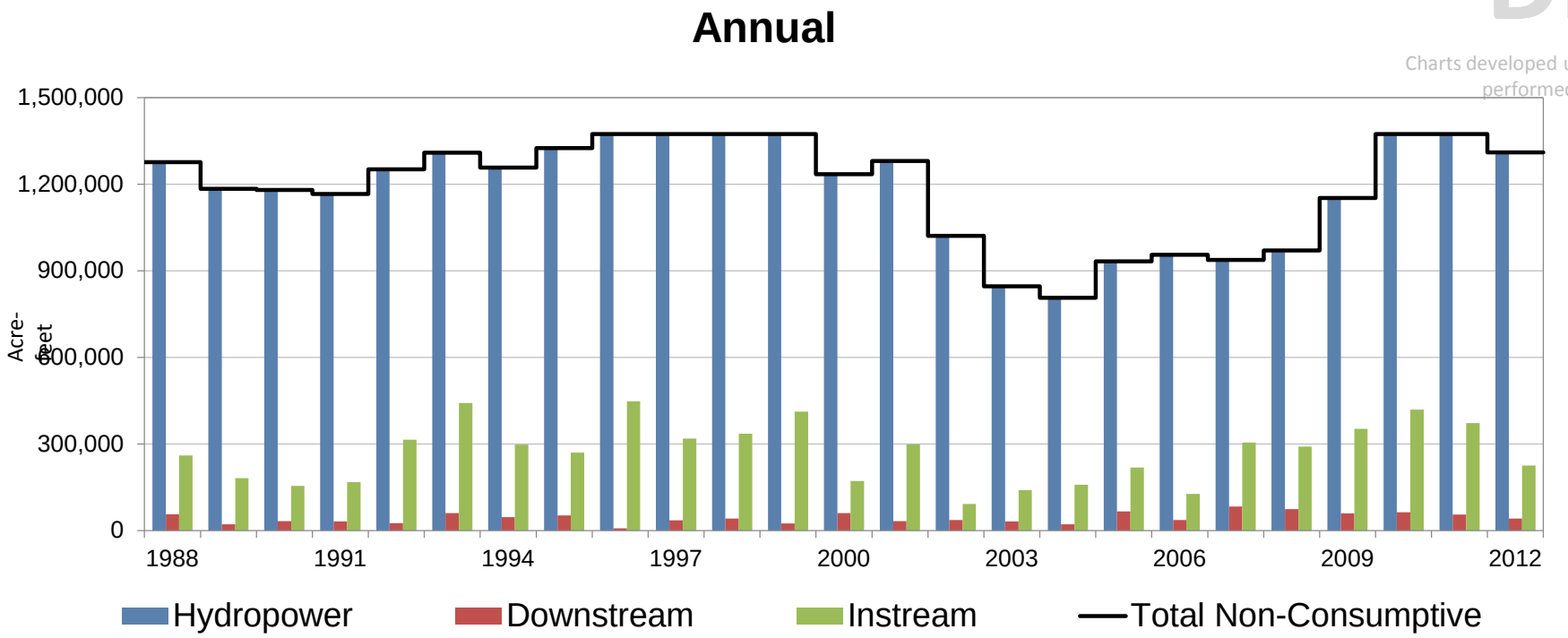
- Recap -

Non-Consumptive Demands

Platte River Above Odessa

DRAFT

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017



- BALANCE -

Basin Water Supply –

(Surface Water Demands + Near-Term Groundwater Demands + Net Surface Water Loss + *Downstream Demands*)

Platte River Above Odessa

DRAFT

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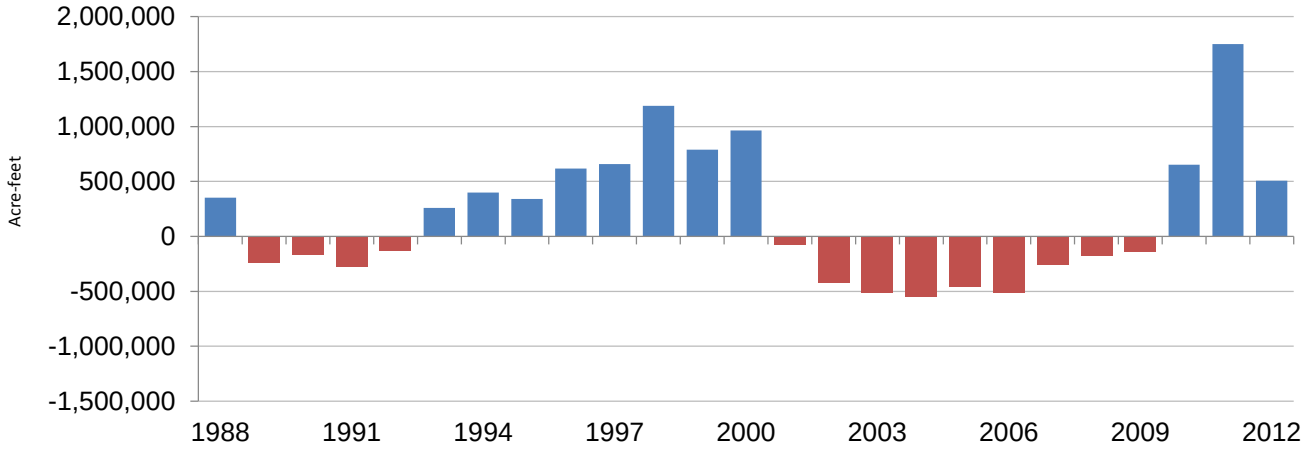
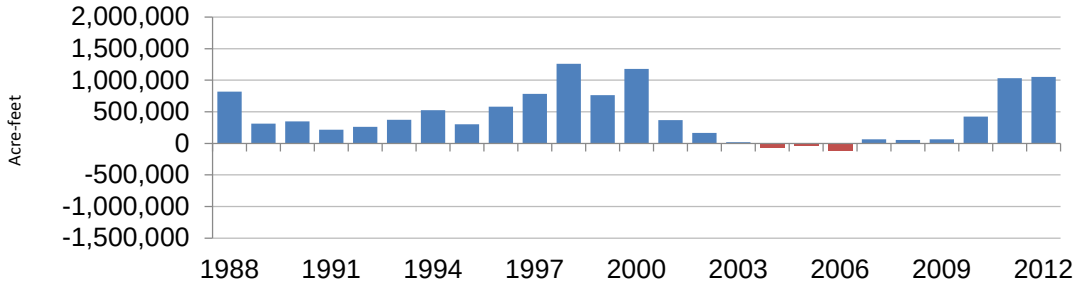
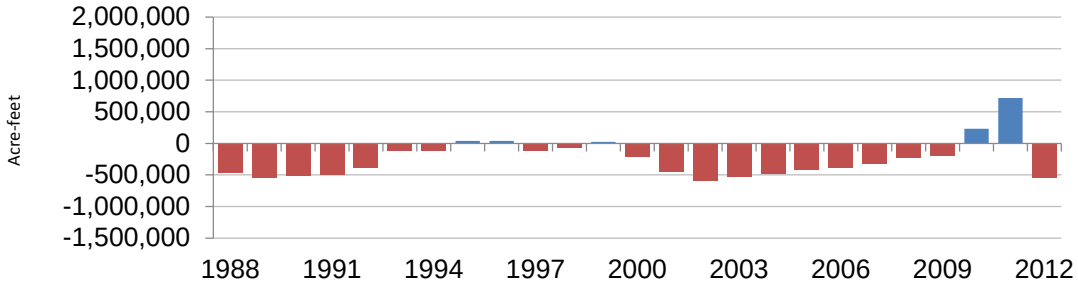
Annual



September-May



June-August



- BALANCE -

Basin Water Supply –
(Surface Water Demands + Near-Term Groundwater Demands + Net Surface Water Loss + *Instream Flow Demands*)

Platte River Above Odessa

DRAFT

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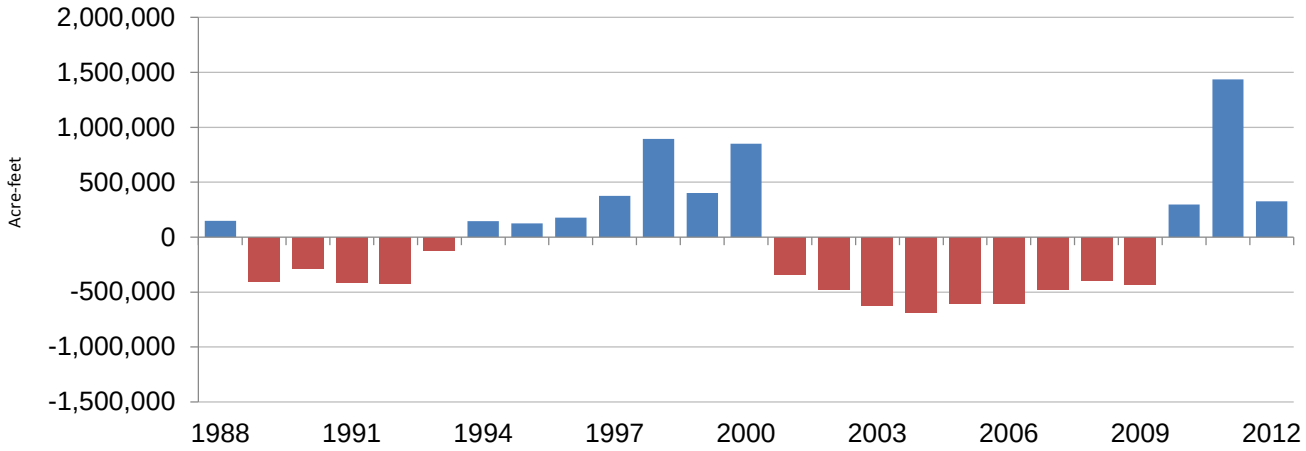
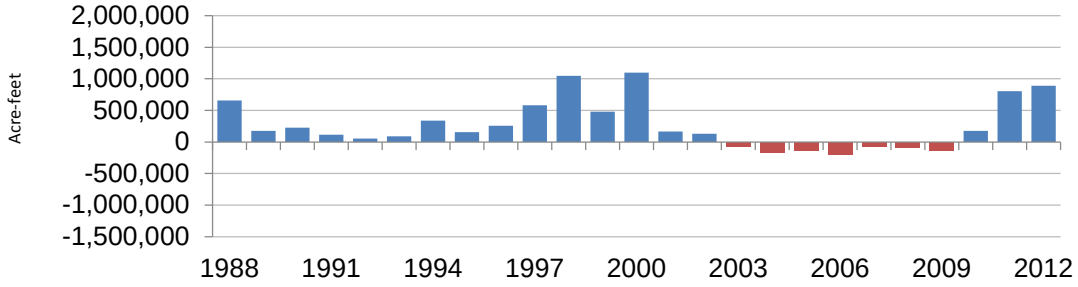
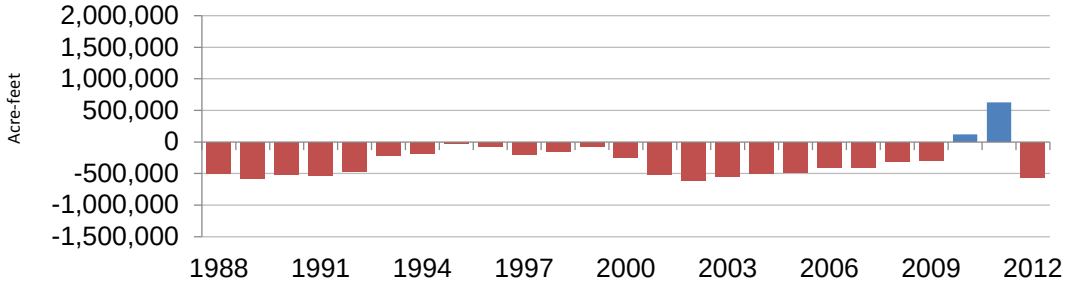
Annual



September-May



June-August



- BALANCE -

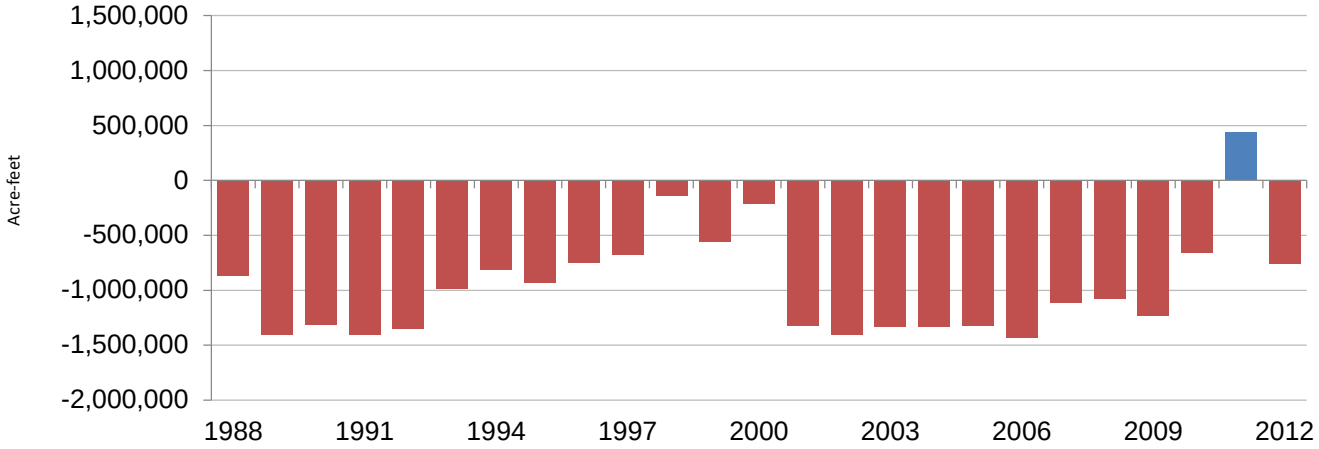
Basin Water Supply –
(Surface Water Demands + Near-Term Groundwater Demands + Net Surface Water Loss + *Hydropower Demands*)

Platte River Above Odessa

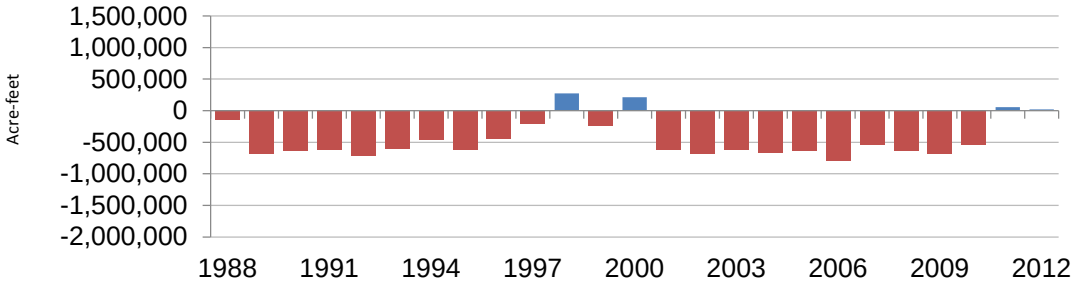
DRAFT

Charts developed using INSIGHT methodology. Analysis performed by HDR. Data current as of 3/1/2017

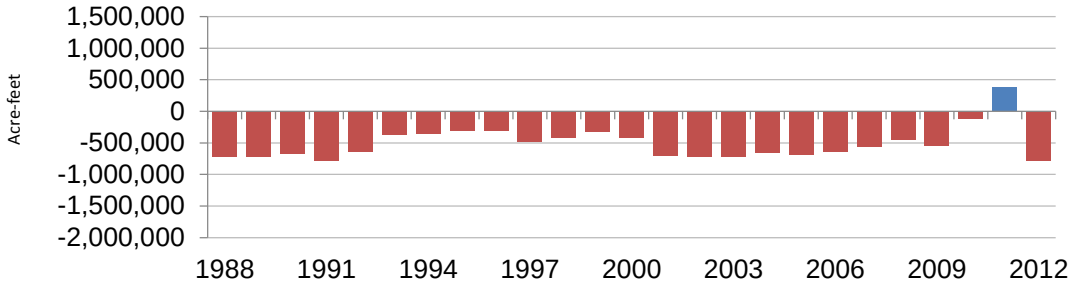
Annual



September-May



June-August



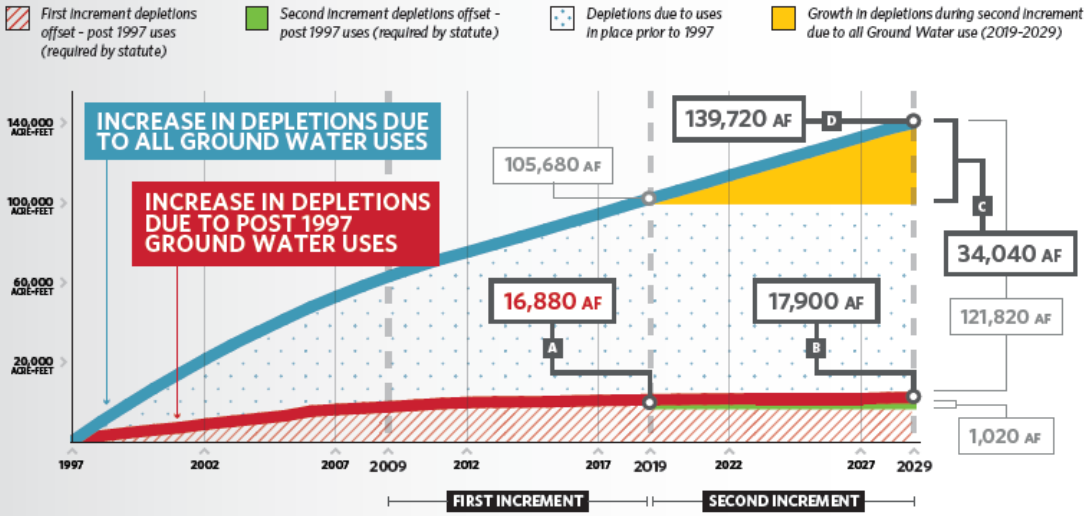
QUESTIONS

GROWTH IN DEPLETIONS

UPPER PLATTE BASIN

Growth In Depletions

BACKGROUND: The First Increment of the Upper Platte basin-wide plan was adopted in 2009. It is a requirement that a technical analysis of the first basin-wide plan must occur in the ten years following its adoption. This technical analysis is needed to determine the path forward in order to achieve the goals and objectives set for the plan. First Increment efforts also worked to establish the overall difference between current and fully appropriated levels of development.



Total depletions from all Ground Water uses in 1997 estimated 391,470AF. Data used to estimate increases in depletions due to all Ground Water uses is from the results of the most recent COHYST and WWUM models (2015). Data used to estimate increases in depletions due to post-1997 Ground Water uses is from previous analysis conducted by R. R. Luckey (2008). The robust review currently underway will provide updated data for both of these depletions estimates.

SECOND INCREMENT

The Single Planning Group will help define the progress towards fully appropriated conditions to be made during the second increment.

A **16,880 AF**
Starting point for Second Increment
(mitigation of 16,880AF of depletions from post 1997 uses required in first increment)

Range of estimated depletions offset benefits of first increment actions (43,600AF to 126,170AF)

25,000 | 50,000 | 75,000 | 100,000 | 125,000 | 150,000

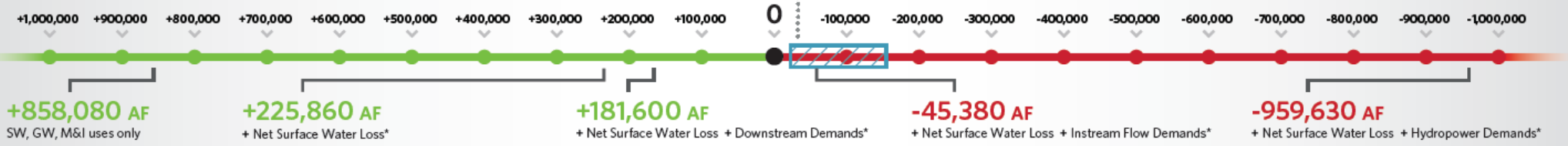
B **17,900 AF**
Includes **1,020AF** growth in post 1997 use depletions *(2019-2029)*

A + C **50,920 AF**
16,880AF of post 1997 use depletions *(1997-2019)*
+34,040AF growth in total depletions that includes **1,020AF** of post 1997 use depletions *(2019-2029)*

D **139,720 AF**
Growth in total depletions *(1997-2019)*
Includes all post 1997 use depletions

SUPPLY & DEMAND BALANCE

The Single Planning Group will help define the progress towards fully appropriated conditions to be made during the second increment. The scale below shows values taken from the Basin-Wide Supply and Demand Analysis.



+858,080 AF
SW, GW, M&I uses only

+225,860 AF
+ Net Surface Water Loss*

+181,600 AF
+ Net Surface Water Loss + Downstream Demands*

-45,380 AF
+ Net Surface Water Loss + Instream Flow Demands*

-959,630 AF
+ Net Surface Water Loss + Hydropower Demands*

** All figures reflect the average annual difference when comparing supplies with Surface Water (SW), Ground Water (GW), and Municipal and Industrial (M&I) consumptive uses.*

IV. NEXT STEPS

V. PUBLIC COMMENT