



DRAFT WORK PRODUCT



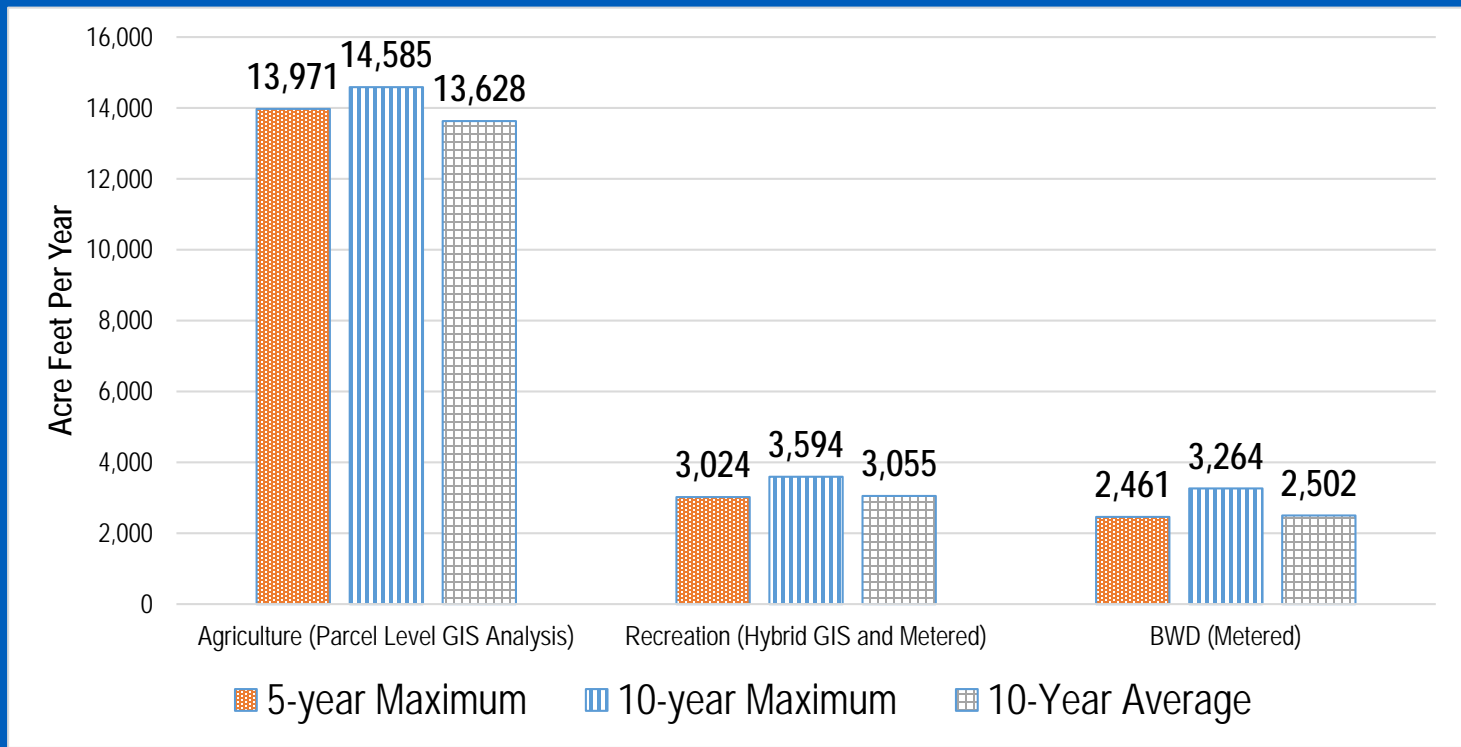
**Borrego Valley Groundwater Basin  
Borrego Springs Subbasin  
Baseline Pumping Allocation**

**Borrego Valley Groundwater Basin  
Sustainability Plan**

**November 27, 2017**

# Baseline Pumping Allocation

Estimated Aggregate Baseline Pumping by Sector (Acre–Feet per Year)



Period	Agriculture	Municipal	Recreation	Total
5-year Maximum	13,971	2,461	3,024	19,456
10-Year Maximum	14,585	3,264	3,594	21,443
10-Year Average	13,628	2,502	3,055	19,185

# Baseline Pumping Allocation

## Comparison 5-Year to 10-Year Maximum

### Estimated Percent Increase 5-Year to 10-Year Maximum (Acre-feet per Year)

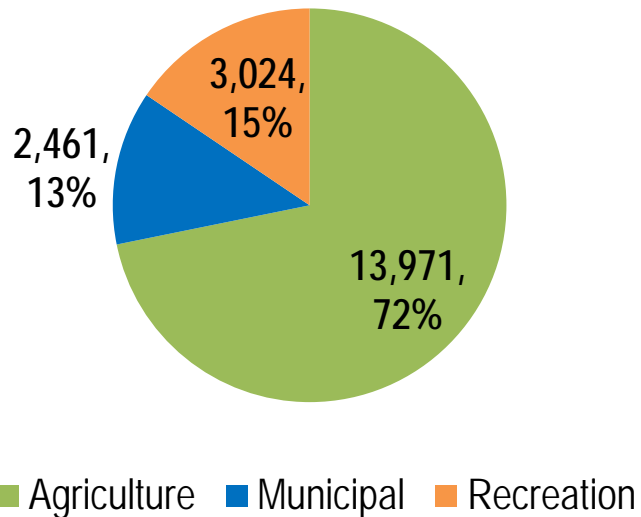
Period	Agriculture	Municipal	Recreation	Total
10-year Maximum	14,585	3,264	3,594	21,443
5-year Maximum	13,971	2,461	3,024	19,456
Change	614	803	570	1,987
Percent Increase 5-Year to 10-Year Maximum	<b>4.4%</b>	<b>32.6%</b>	<b>18.8%</b>	<b>10.2%</b>

### Estimated Percentage of Overall Pumping by Sector

Period	Agriculture	Municipal	Recreation	Total
10-year Maximum	0.68	0.15	0.17	100%
5-year Maximum	0.72	0.13	0.16	100%
Percent Increase 5-Year to 10-Year Maximum	<b>-4%</b>	<b>17%</b>	<b>5%</b>	

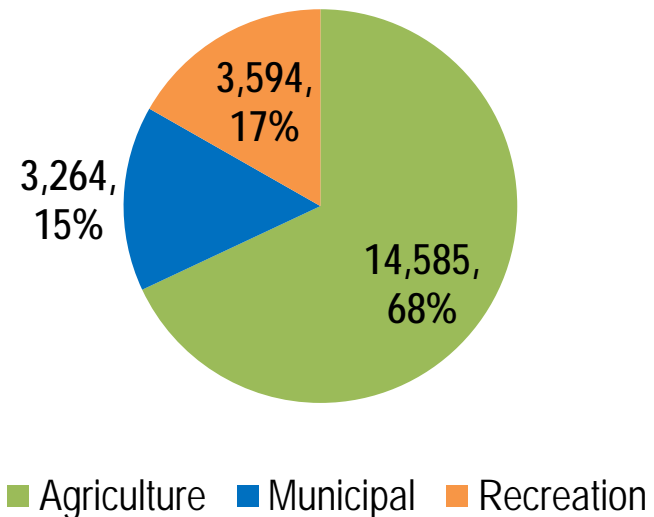
# Baseline Pumping Allocation 5-Year and 10-Year Maximum Comparison

5-Year Maximum Total Estimated Aggregate Pumping (Acre-feet)



**19,456 acre-feet**

10-Year Maximum Total Estimated Aggregate Pumping (Acre-feet)



**21,443 acre-feet**

# Baseline Pumping Allocation Recommendation

- Dudek recommends that the Advisory Committee and Core Team consider use of a five-year maximum time period to determine each groundwater users “Baseline Pumping Allocation” The basis for this recommendation include the following:
  - A 5-year maximum has been used in past groundwater rights adjudications to assign pumping allocation based on the 5-year statutory period required for prescriptive water rights;
  - A 5-year maximum is the intermediate alternative, whereas the 10-year average may be overly restrictive, and a 10-year maximum may not be restrictive enough to meet objectives; and
  - A 5-year maximum is an achievable goal and critical step toward sustainable basin management which balances the need for pumping reductions with the associated hardships.



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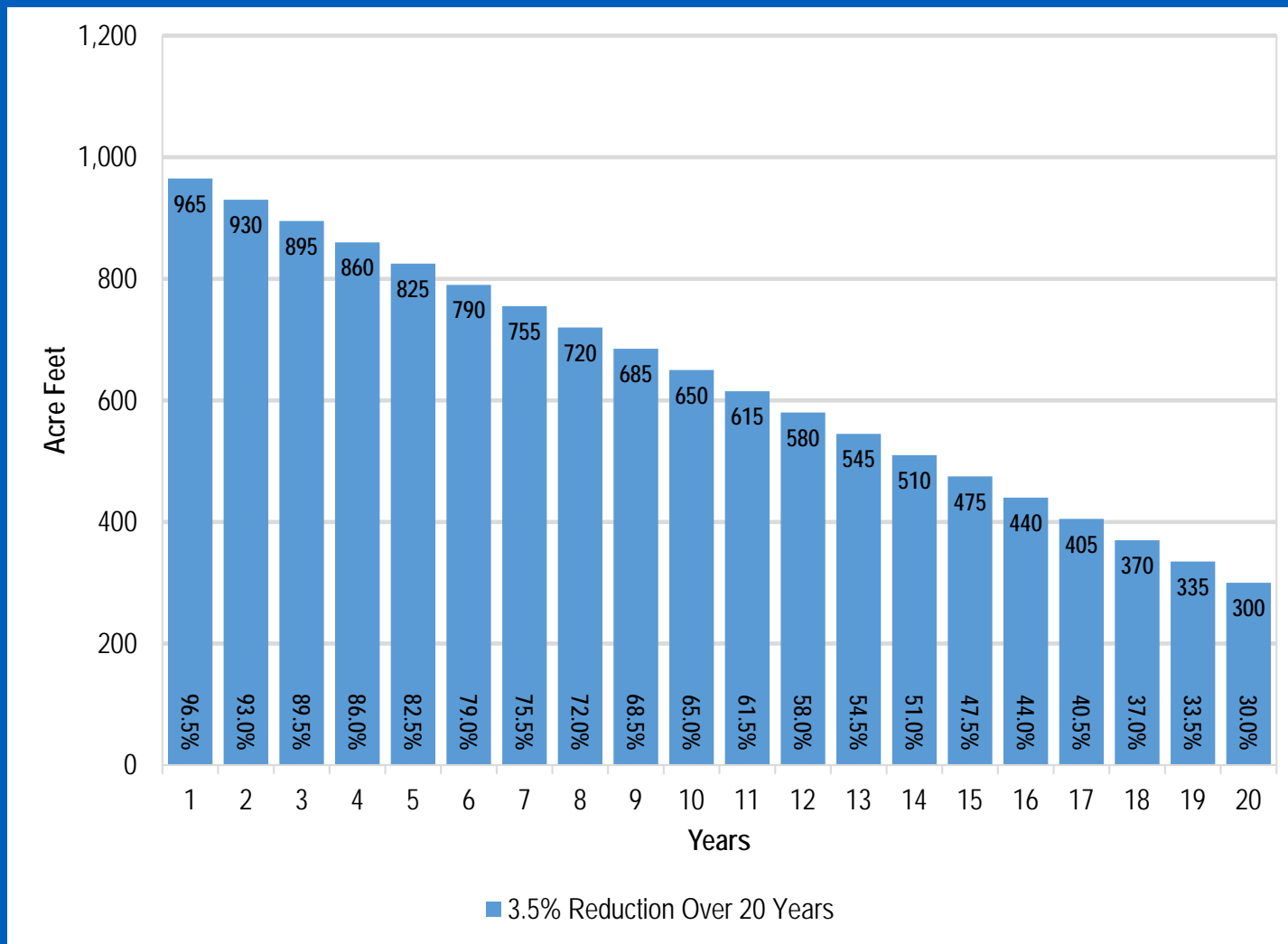
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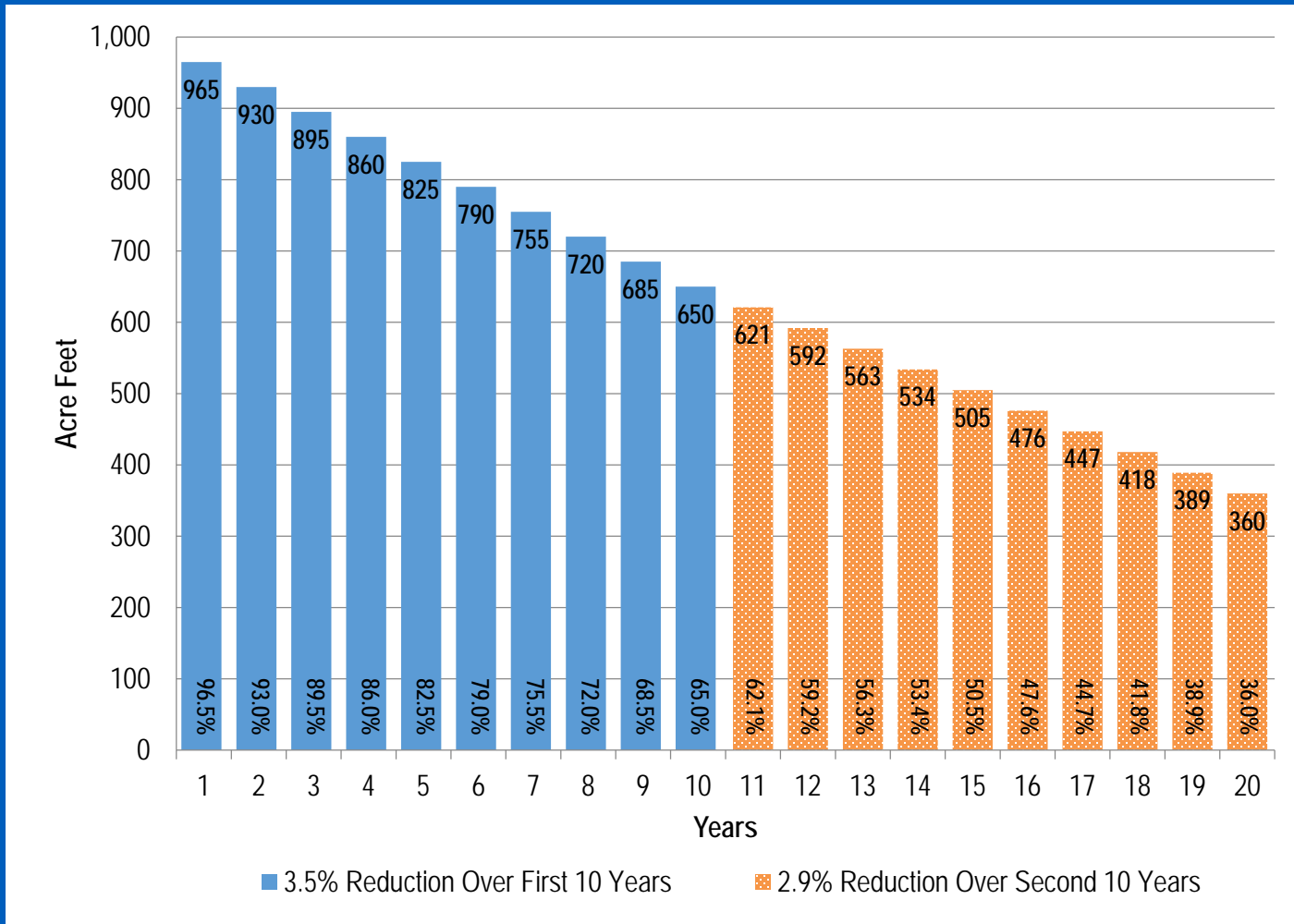
# Baseline Pumping Allowance

**Example 1:** Pumping Allowance Over 20-year Implementation Period with Linear Pumping Reduction



# Baseline Pumping Allowance

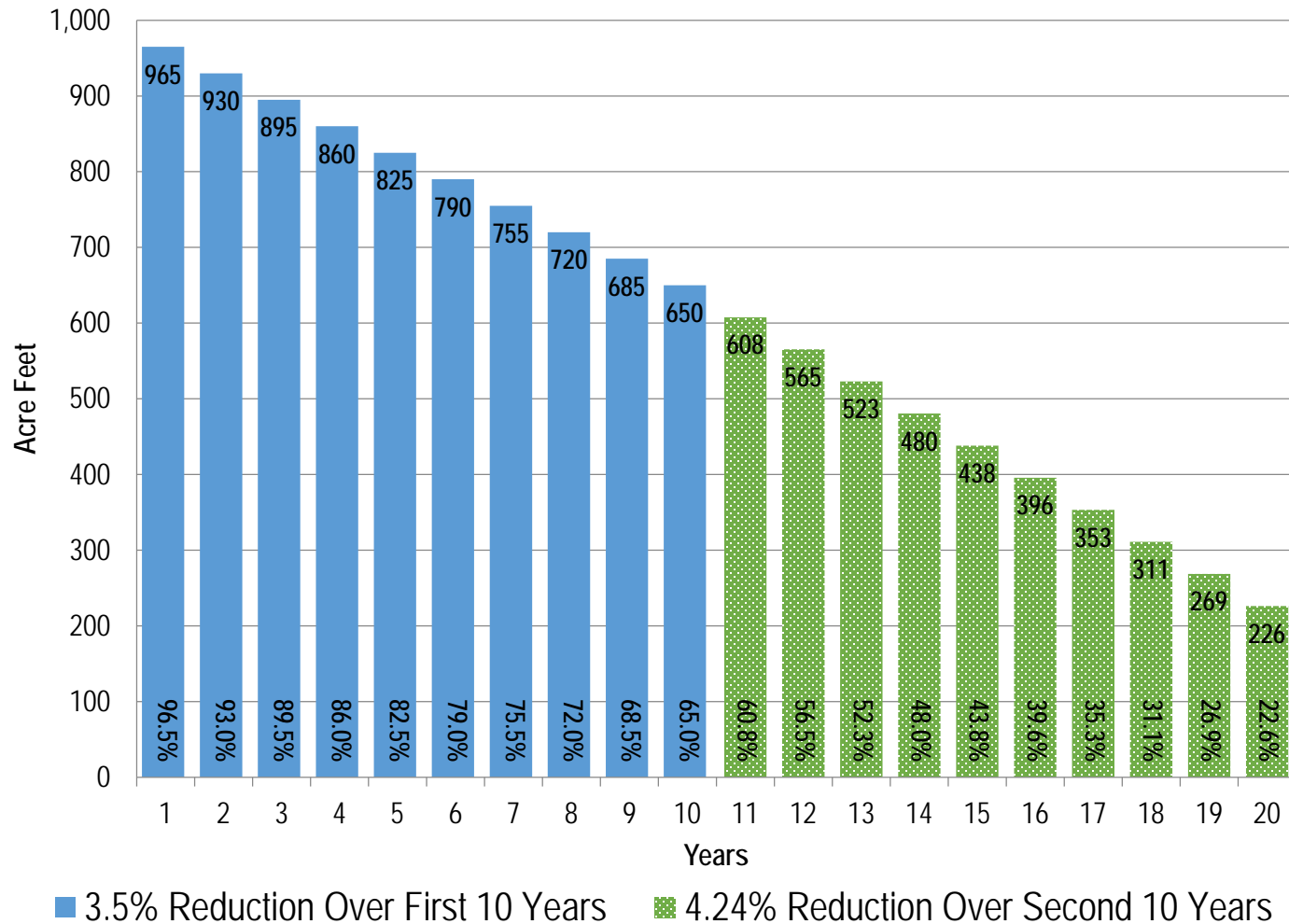
## Example 2: Pumping Allowance Over 20-year Implementation Period





# Baseline Pumping Allowance

## Example 3: Pumping Allowance Over 20-year Implementation Period



# Baseline Pumping Allocation and Pumping Allowance to Achieve Sustainability

