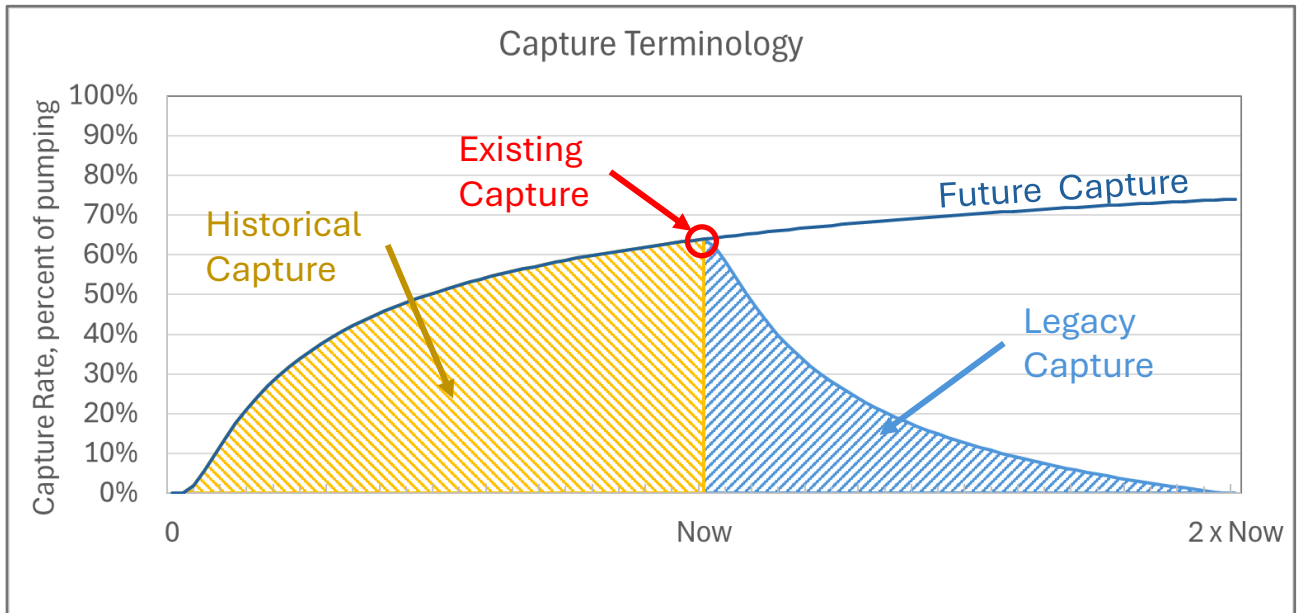
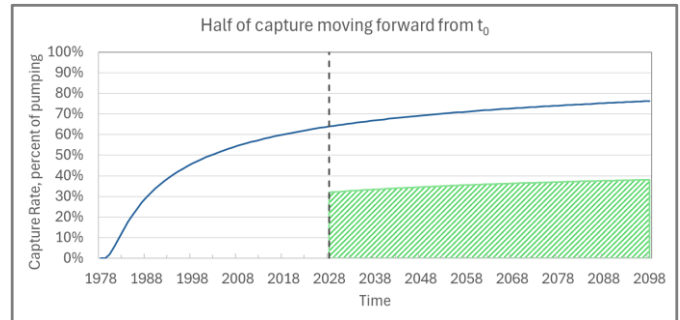
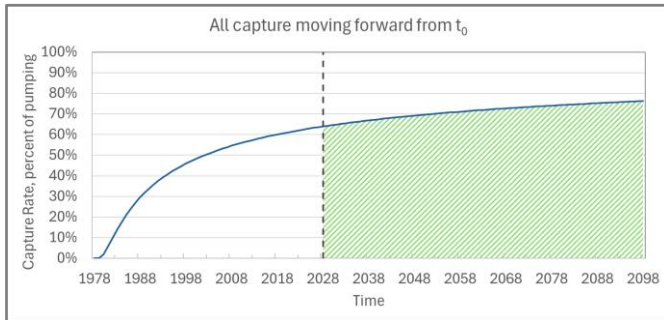
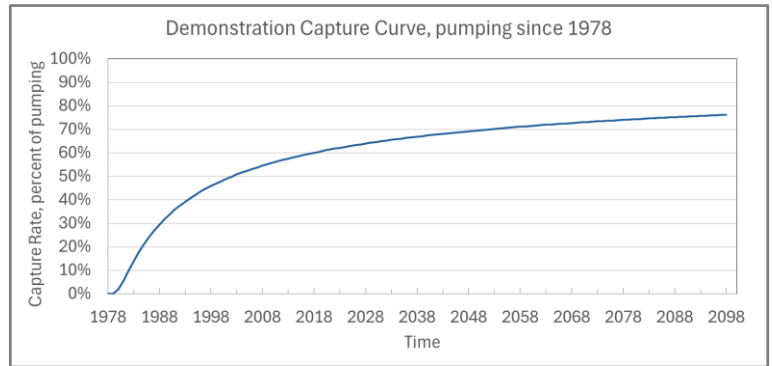


# Capture Terminology

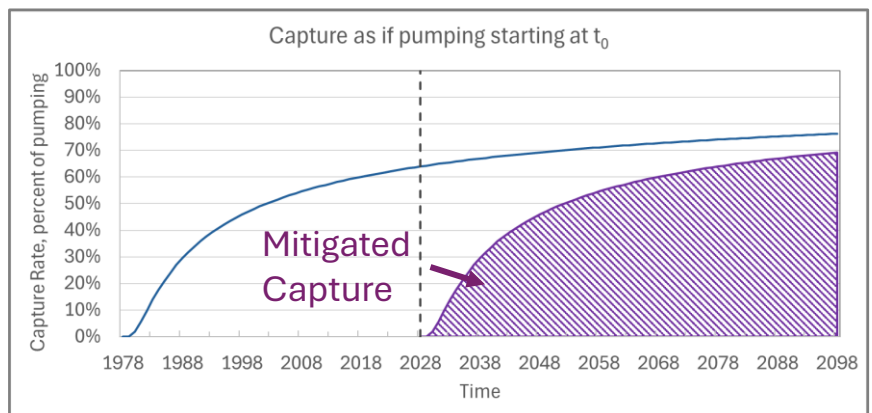


# Concepts for managing existing capture - Goal

Hypothetical Capture  
for a well that has  
pumped since 1978

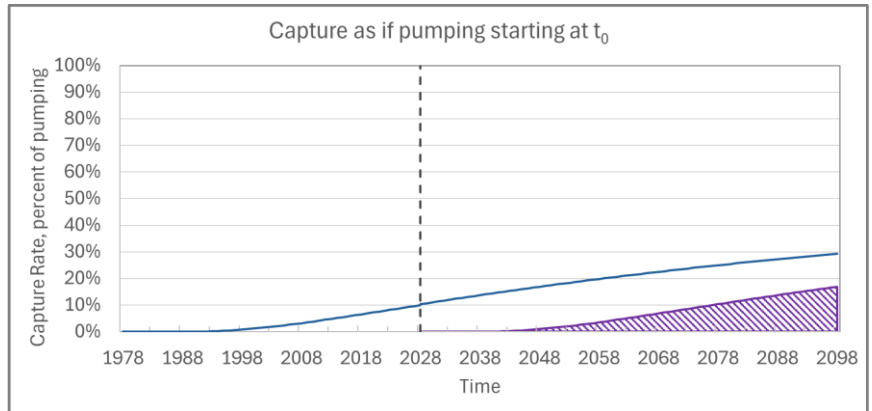


NDWR Preferred goal

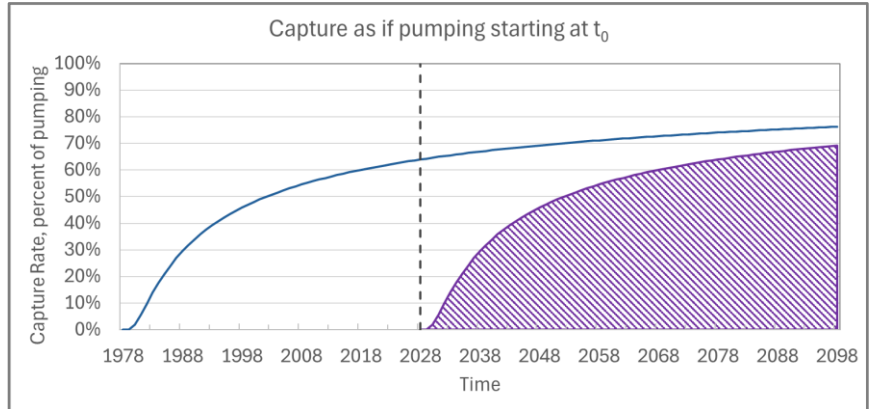


# Visualizing management goal for varying capture rates

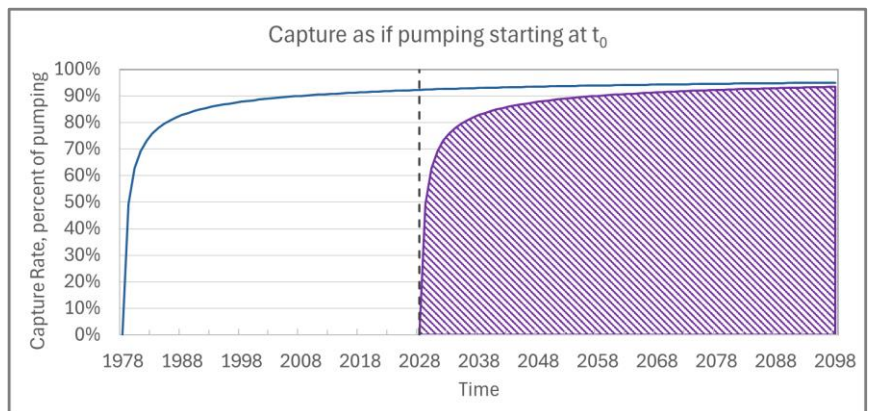
Low Capture -  
25% after 100 yrs



Moderate Capture -  
75% after 100 yrs



High Capture -  
95% after 100 yrs



# DRAFT

## Suggested Potential

### Humboldt River Conjunctive Management Process & Timeline

Chris Mahannah, P.E., WRS

Jay Dixon, P.E., WRS

ITEM	ACTION	TIMELINE (months after model CMZ release)
1	Upper, Middle & Lower Models released to public Establishment of Capture Management Zones (CMZ) based on model results released to public	0
2	Public input, comments, critique of models, CMZ boundaries	6
3	Establish Humboldt River Conservancy District (HRCD) <ul style="list-style-type: none"><li>• Establishment of assessment structure within CMZ's</li><li>• Seek other funding sources</li></ul>	12
4	NDWR notices <u>all</u> UG water right owners of legacy and future capture amount based on <u>actual</u> pumping amounts <ul style="list-style-type: none"><li>• Establish threshold capture amounts where mitigation is required</li><li>• Possible exemption for diminutive domestic &amp; stock water</li></ul>	12
5	Noticed UG water right owners given opportunity to comment or refute capture estimates & mitigation requirements <ul style="list-style-type: none"><li>• Need for standardized methods of rebuttal evidence, models, methods, etc?</li><li>• Is NDWR staffed sufficiently to review rebuttal evidence?</li></ul>	24

6	<p>Noticed UG water rights owners or HRCD must submit mitigation plans for groups of water right owners for replacement water in time, location &amp; amount</p> <ul style="list-style-type: none"> <li>• Voluntary purchase/retirement of UG or STR sources</li> <li>• Augmentation well(s) pumping to river</li> <li>• ASR projects</li> <li>• Storage releases to river</li> <li>• Deficit irrigation practices</li> <li>• Surface water acquisition left in river to replace capture – Order 1329</li> <li>• Voluntary monetary compensation to injured water rights</li> <li>• Others?</li> </ul>	36
7	<p>Water right owners and/or HRCD not complying with submitting a mitigation plan potentially subject to full or partial curtailment based on hydrologic conditions</p> <ul style="list-style-type: none"> <li>• Possibility of curtailment needs to be real for motivation to mitigate</li> <li>• Does NDWR have legislative authority to curtail based on conflict under 534.110(6)?</li> </ul>	36
8	NDWR reviews & approves or rejects mitigation plans	42
9	Water right owners and/or HRCD implement mitigation plans	60
10	<p>Water right owners and/or HRCD failing to implement mitigation plans potentially subject to full or partial curtailment</p> <ul style="list-style-type: none"> <li>• Possibility of curtailment needs to be real for motivation to mitigate</li> <li>• Does NDWR have legislative authority to curtail based on conflict under 534.110(6)?</li> </ul>	60