The Role of Farmland in Managing Ground and Surface Water

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RESULTS ORIENTED

HIGHLY COLLABORATIVE

FOCUSED ON SOLUTIONS THAT WORK ECONOMICALLY

RESULTS ORIENTED
The Kings River Returns to Its Flood Plain

2011
Factors affecting Groundwater Recharge on Farmland

1. Grower interest
2. Site Suitability
3. Crop Compatibility
4. Conveyance and Water District Support
5. Water Storage Cost Comparisons
6. Flood Management Considerations
Demonstration Site Monitoring

Decisions Support Tools
1. Grower Interest and Control
2. Site Suitability

UC Davis - SAGBI

Land IQ
2. Site Suitability
3. Crop Compatibility
4. Conveyance Capacity and Water District Support
5. Water Storage Cost Comparisons

**On-farm Recharge**

$40 - 107/AF

**Dedicated Recharge Basin**

$124 - $250/AF
6. Flood Management Considerations

Graphs

- GW and Recharge
- Recharge by Type
- On-Farm Recharge by Crop
- Unused Water Available for Recharge
- Financials

<table>
<thead>
<tr>
<th>Below Normal</th>
<th>Above Normal</th>
<th>Wet</th>
</tr>
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<tbody>
<tr>
<td>Unused WAFR: Acre-Feet</td>
<td>0</td>
<td>2153</td>
</tr>
<tr>
<td>Unused WAFR: % of Total</td>
<td>0.0</td>
<td>1.8</td>
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A New Role for Farmland in Groundwater Recharge and Flood Management?