

Graphics Session

Water Plan Plenary, Sept. 13, 2012

- Water Supply and Balance
- Environmental Water

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Water Balance and Environmental Water Graphics

- What we've covered - "Aug. 16 workshop"
- Where we landed
- Next Steps
- Discussion

What we've covered

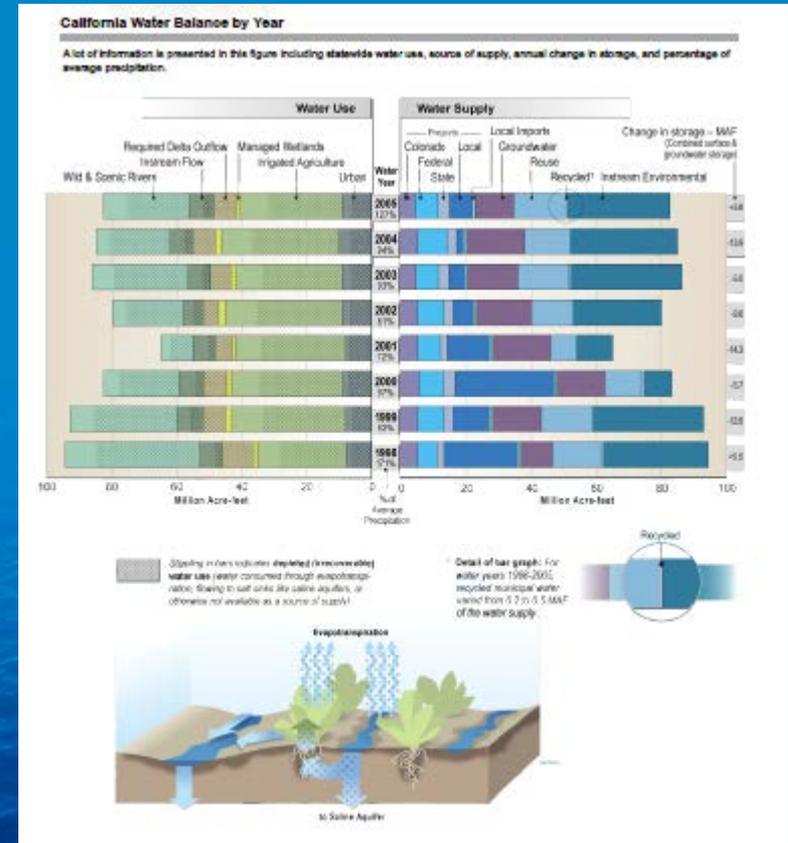
August 16th Workshop

- Background: Water Supply and Balance graphics
- Complexity and political implications of showing applied vs. net water use
- Issues with including Wild and Scenic rivers water
- Gave many proposals for graphics moving forward

Where we landed

“Butterfly chart”

- Starting point
- 10 or 13 years
- 10 sources, 5-6 uses
- GW representation
 - GW Caucus
- Basic adjustments
 - Labeling and terminology
 - Incl. explanatory boxes
- Lead-in/out graphics
 - Variability, Complexity
 - Year type, regional, applied vs. net
 - Add a layer
 - Separate balances for each use



Where we landed

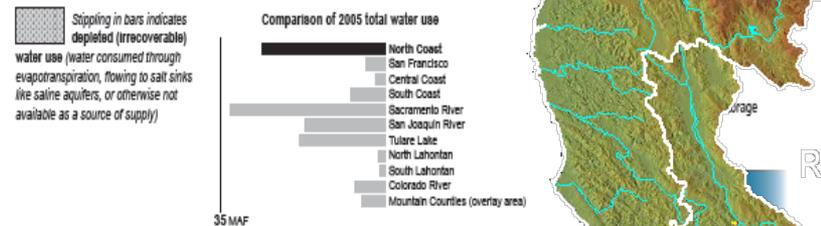
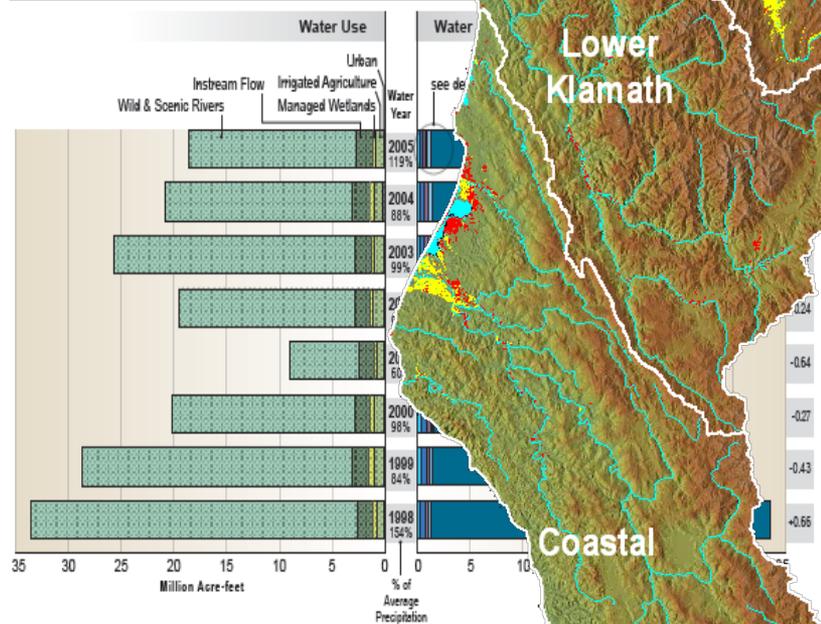
Environmental Water

- Remove Wild and Scenic water from Water Balances in NC or all regions (box, pop-out or separate table) ?
- Paired graphics – one with and one without flow-based environmental or just W & S
- Show applied and net water (wouldn't fix NC issue).
- Delta Stewardship Council bar charts
- Water Balance for each use
- Better descriptions and explanations

Where we landed

North Coast Wild & Scenic rivers issue

Figure NC-2 North Coast water balance for water years 1998-2005

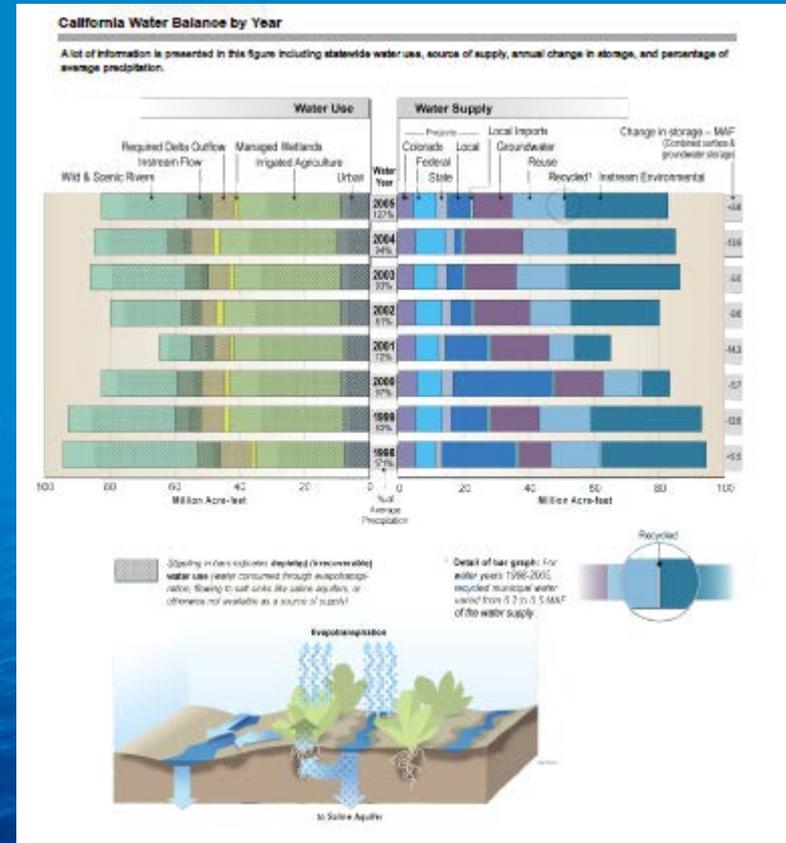


Wild and Scenic Rivers overpower the NC graphic and also the CA chart.

- These rivers deplete to the ocean.
- We can't see what is going on in other sectors in the NC Hydrologic Region.

Next Steps “Butterfly chart”

- 10 or 13 years?
- Applied or Net or both?
- Explain what data does/doesn't include. **What should data include ?**
- Terminology/labeling and definitions **What should be changed or added/deleted?**

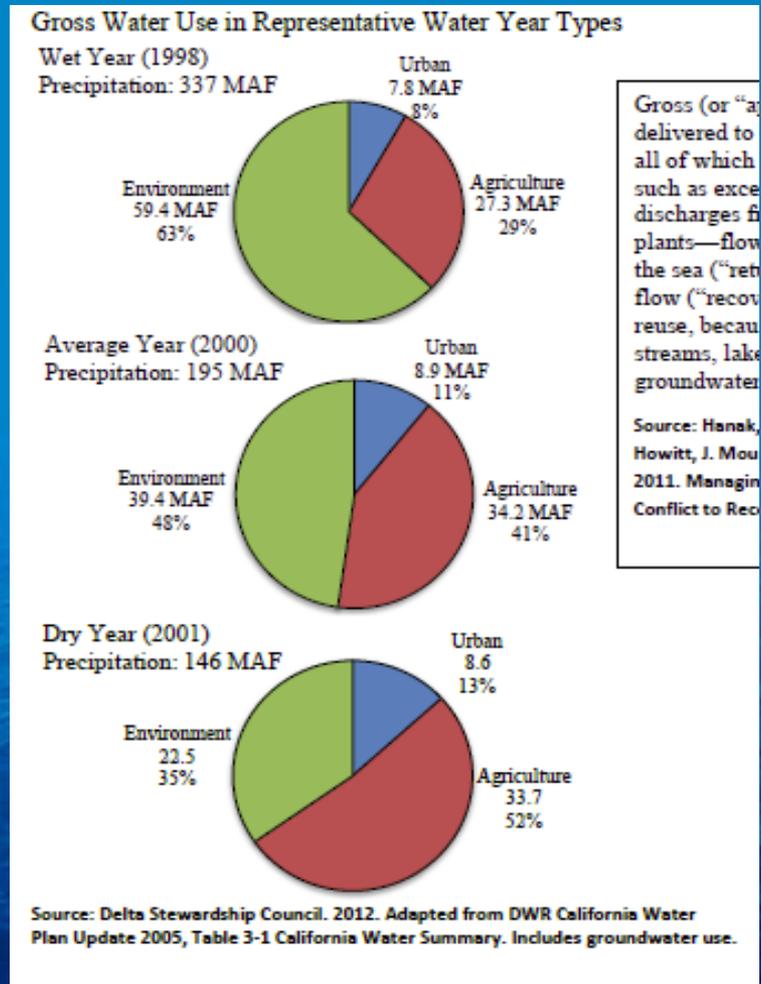


Next Steps - Lead-in graphics

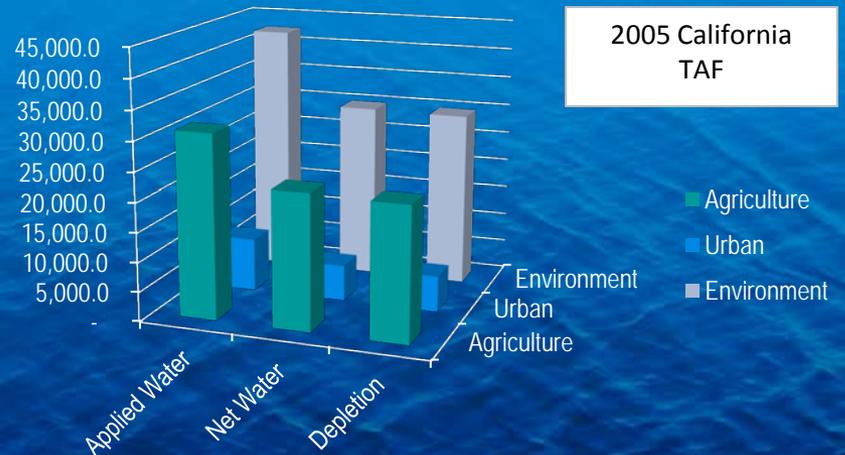
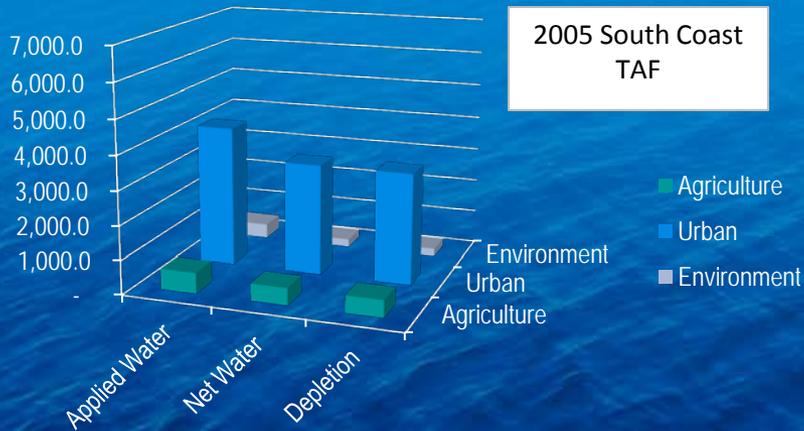
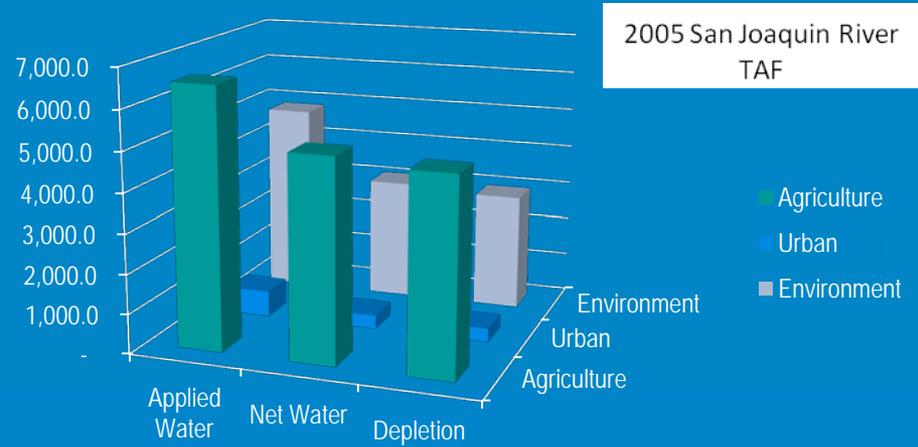
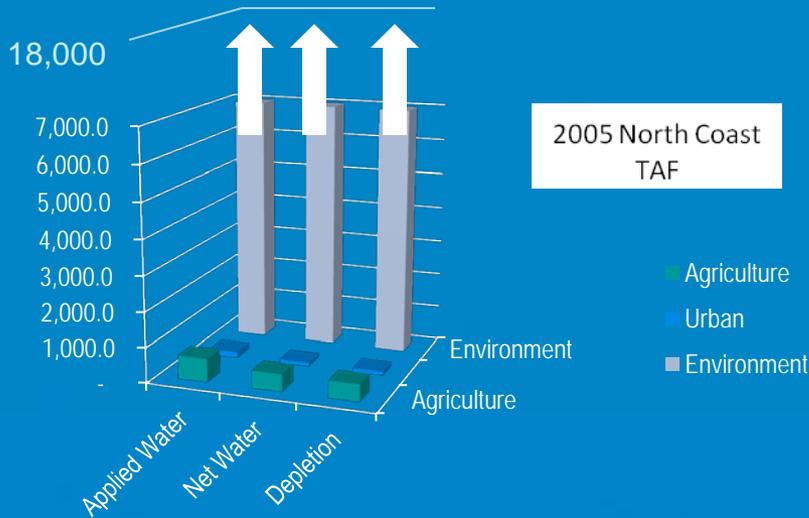
Delta Stewardship Council

OPTION 1

- Explains Applied Water as “Gross” 😊
- We can see variability due to year type.
 - Desire for proportionately sized pie charts ?



Next Steps - Lead-in graphics

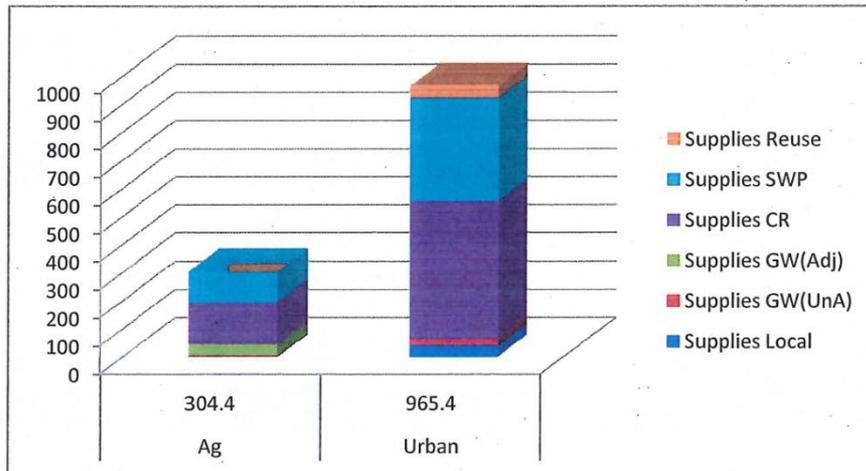


OPTION 2

Next Steps – Add a layer

Water Balance by Use

South Coast		Draft 2007 numbers	
		Ag	Urban
AW		304.4	965.4
Supplies	Local	0.7	43.3
	GW(UnA)	4.3	22.1
	GW(Adj)	41.3	0.9
	CR	149.1	486.9
	SWP	109	368.9
	Reuse	0	43.3

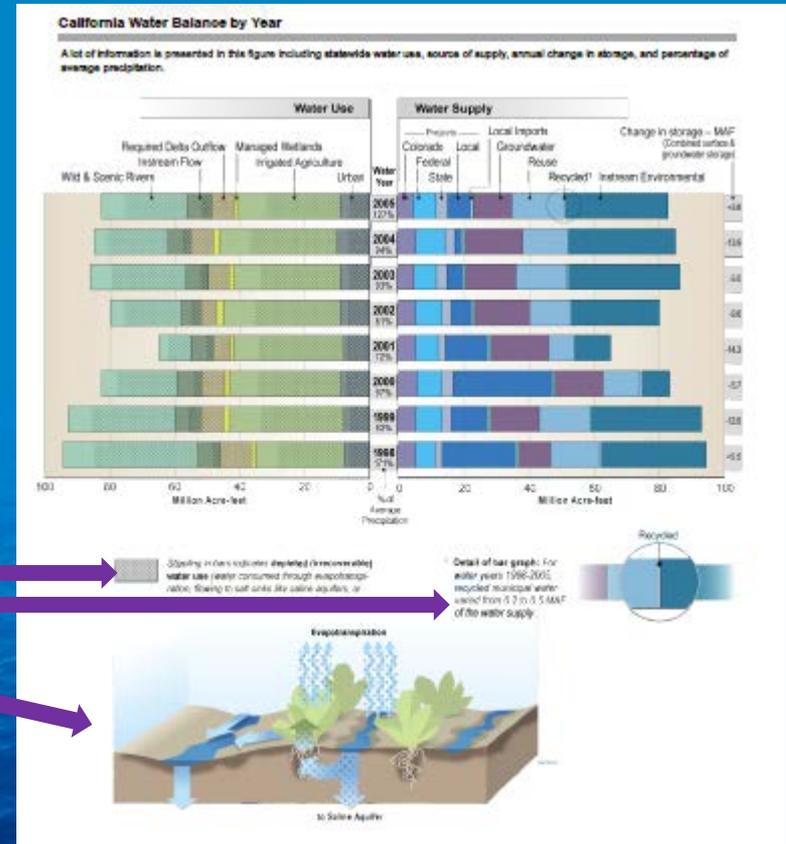


- We could add a layer showing sources of supply for each use.
 - Urban Use
 - Agricultural Use
 - Environmental Water

- Would this be helpful information for folks?

Next Steps – more thoughts

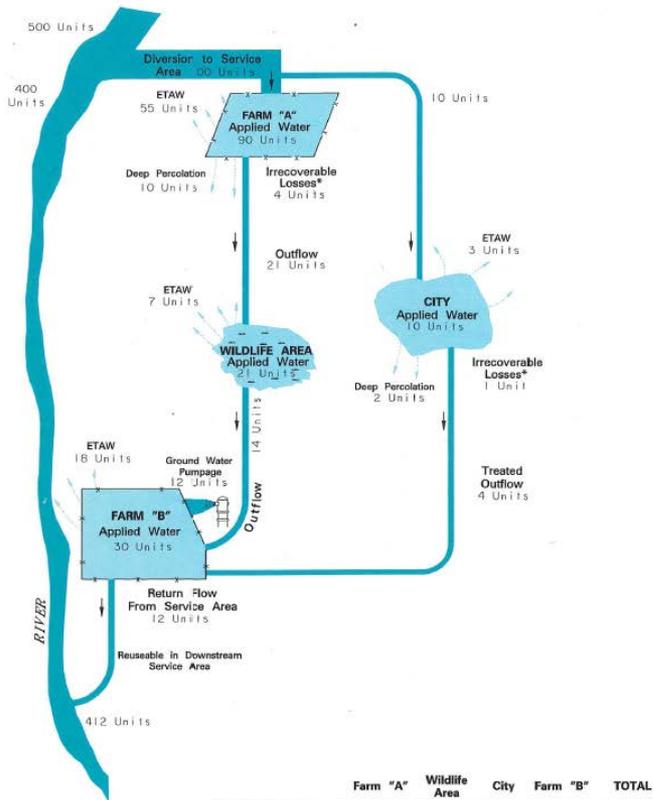
- If we have all 13 years, we need a two page spread.
- What additional explanations would you like to see?
- Data Table



Next Steps – Explanations/Definitions B160-93 Schematic

Figure III-A. Derivation of Applied Water, Net Water Use, and Depletion

Example of Water Use in Inland Areas



	Farm "A"	Wildlife Area	City	Farm "B"	TOTAL
Applied Water	90	21	10	30	151
Reuse Water	31	14	6	0	51
Net Water Use	—	—	—	—	100
ETAW	55	7	3	18	83
Irrecoverable Losses*	4	0	1	0	5
Depletion	59	7	4	18	88

ETAW = EVAPOTRANSPIRATION OF APPLIED WATER

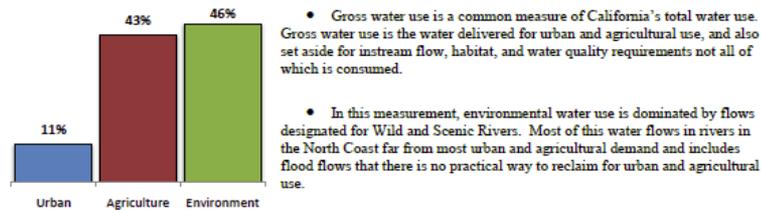
- Generic example
- Uses simple units to explain applied, net, and depletion concept
- Would this help?

Next Steps

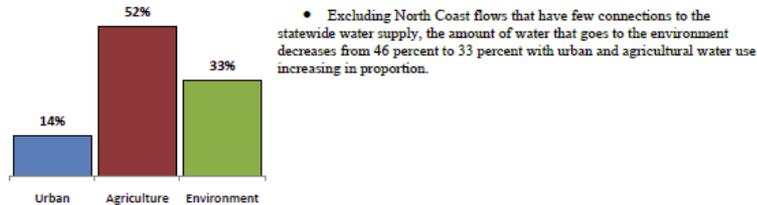
Environmental Water – DSC

MOST ENVIRONMENTAL WATER HAS FEW CONNECTIONS TO OUR STATEWIDE WATER SYSTEM AND CANNOT BE RECLAIMED FOR URBAN AND AGRICULTURAL USE

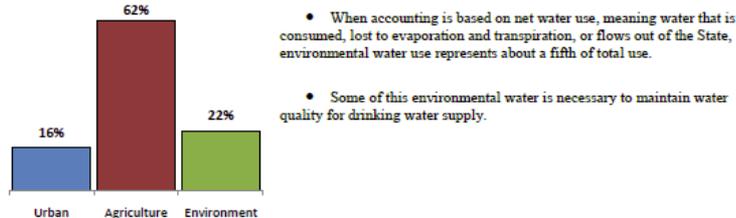
Statewide Gross Water Use 1998-2005



Gross Water Use Excluding North Coast Flows 1998-2005



Net Water Use Excluding North Coast Flows 1998-2005



Source: Delta Stewardship Council. 2012. Adapted from PPIC Myths of California Water – Implications and Reality. Figures represent the average water use for 1998-2005, adapted from California Water Plan Update 2009. Includes groundwater use.

- 1998-2005 Average Water Use
- Top: AW w/ NC flows
Middle: AW w/o NC flows
Bottom: Net w/o NC flows
- Would this be a helpful supplemental graphic?

Let's Discuss...

- What do you think of the options?
- Are there other options?
- Please, write your name and scribble thoughts on handout and turn in.