DISCUSSION OF CONCEPTUAL STRATEGY

A JOINT DISCUSSION OF

THE WATER SUPPLY AND RELIABILITY STRATEGIC PLAN WORKGROUP

AND

THE HEALTHY ECOSYSTEM WORKGROUP

[AS DISCUSSED AT THE BLUE RIBBON TASK FORCE ON MAY 28, 2008
DURING THE AFTERNOON SESSION ON WATER SUPPLY AND RELIABILITY]

Question for discussion:
Can the timing of major Delta diversions be shifted to help meet ecosystem objectives while meeting the co-equal objectives of the Vision? (e.g. Can we shift from a predominantly on-demand delivery system to one that is more flexible to manage diversion timing and magnitude with less adverse environmental affects.)

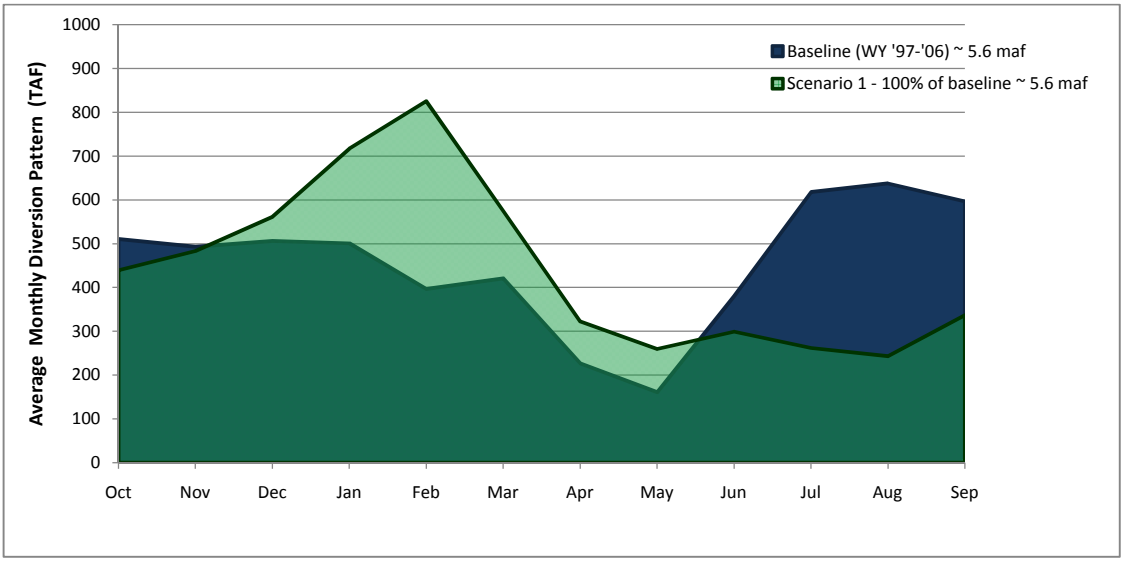
A few considerations:

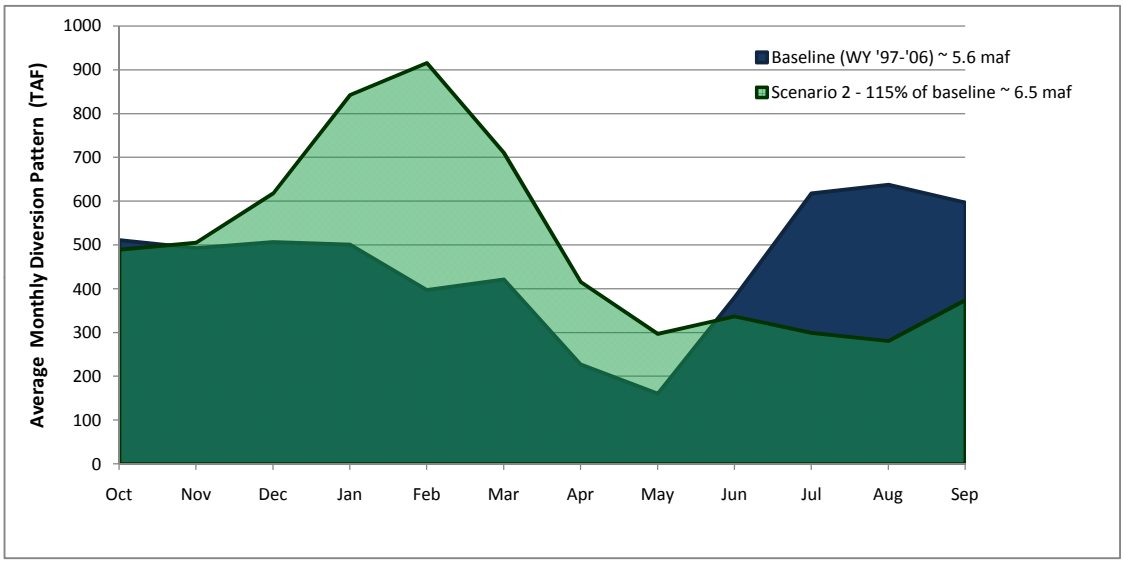
1. Any implementation of this concept would not be a near-term fix, but a long-term commitment that would require many details to be determined and implemented over several decades
2. Having clear ecosystem objectives is necessary to understand the potential magnitude, opportunities and benefit of any shifting
3. New conveyance that may be necessary to facilitate a shift would have to be expanded far enough down the system to interface with identified surface and/or groundwater storage
4. New storage to help manage any shift could be managed in groundwater basins or new surface storage facilities or a combination of both. Storage could be upstream or downstream of the Delta, or both.
5. Though the illustrative scenarios on the accompanying graphics depict certain pre-determined diversion timing and magnitudes, actual diversion timing and magnitude would likely be governed by:
    a. Total inflow/Delta outflow conditions
    b. Precipation/snowpack (especially as these values may shift with climate change)
    c. A maximum allowed percentage of existing inflow during given conditions
    d. Upstream/downstream storage conditions
    e. Projected demands

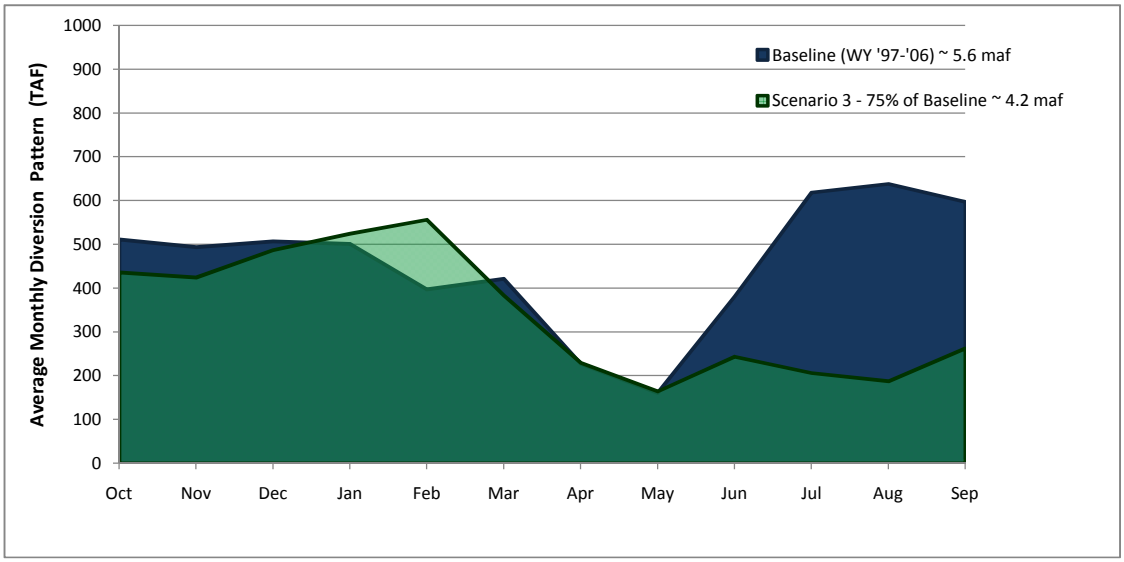
Accompanying Graphics:

1. The attached graphics provide illustrative context for the discussion. They are based on assumptions made with limited input from those savy to the intricacies of operations.
    a. Baseline data represents CVP/SWP Delta diversions for WY 1997 through WY 2006
    b. The 3 scenarios reflect efforts to:
        i. Maintain the existing long-term average annual quantity (~5.6 maf)
        ii. Increase the long-term average annual quantity (~6.5 maf)
        iii. Decrease the long-term average annual quantity (~4.2 maf)

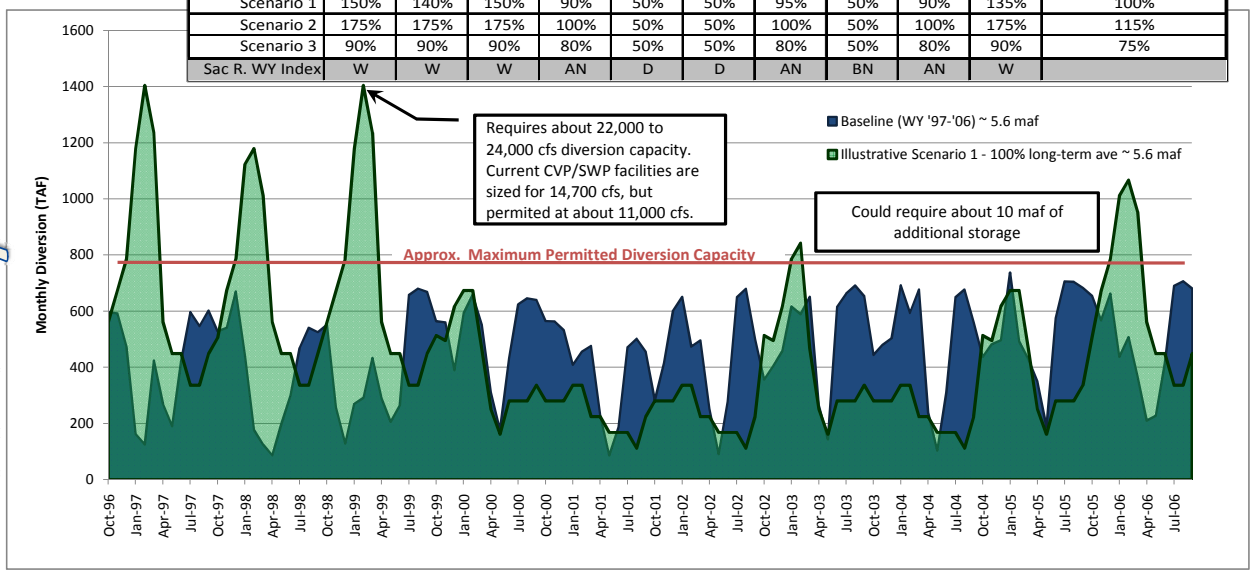
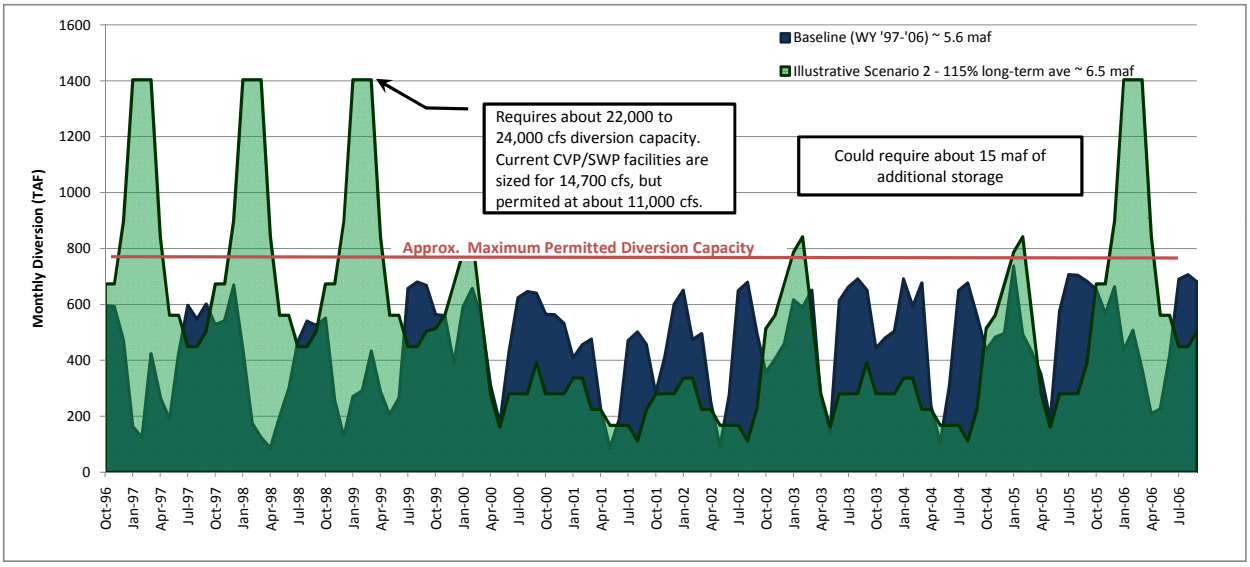
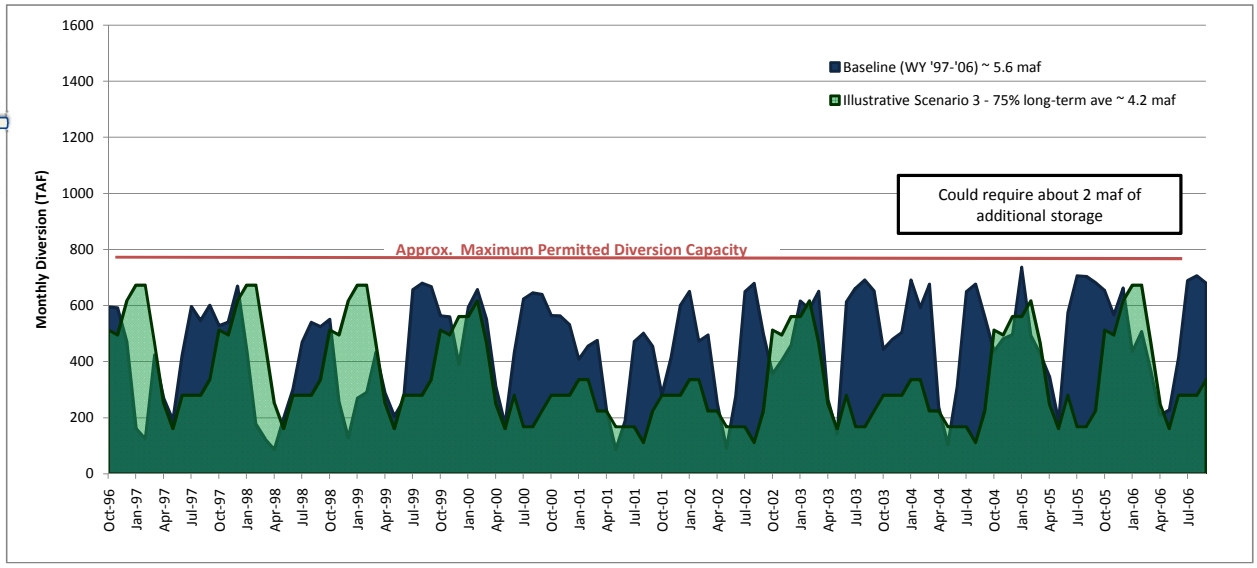
Conceptual - for Illustrative Use Only







Conceptual - for Illustrative Use Only

Percent of WY '97-'06 average delivery to achieve long-term average delivery target

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Long-term Ave Target (% of baseline)
Scenario 1	150%	140%	150%	90%	50%	50%	95%	50%	90%	135%	100%
Scenario 2	175%	175%	175%	100%	50%	50%	100%	50%	100%	175%	115%
Scenario 3	90%	90%	90%	80%	50%	50%	80%	50%	80%	90%	75%
Sac R. WY Index	W	W	W	AN	D	D	AN	BN	AN	W