ASSETS FOR EARLY STAGE 1 SCENARIO DEVELOPMENT

ASSET	DESCRIPTION OF ASSET APPLICATION FOR SCENARIO DEVELOPMENT
SOURCE SHIFTING	♦ MWD: 60,000 af (2000 Ops), may continue through Stage 1 ♦ Groundwater Substitution: Shift Sacramento Valley surface water users to groundwater ♦ Crop shifting in Delta: Shift to less water intensive crops during certain time periods
GROUNDWATER STORAGE SOUTH OF THE DELTA / WATER ACQUISITION)	♦ Kern Water Bank: Potential for <=90,000 af on annual basis for three years if first years of a drought; 90,000 af in years that KCWA gets 100% allocation in wetter years. ♦ Vidler Water Company: Lease of groundwater storage space (49,000 af), and water acquisition (6.300 af) ♦ Semitropic Storage Capacity: Sublease 100 af usable storage ♦ Options: Acquire options on water north and south of the Delta
LAKE ALMANOR RELEASES	♦ Approximately 100 kaf per year March-May Feather River flows
INCREASED BANKS PUMPING CAPACITY	♦ Increase pumping capacity by 500 cfs in year 2000 (70,000-90,000 af) ♦ Increase pumping capacity to 6.6 kcfs to 8.5 kcfs July-September ♦ 6.6 ka + 1/3 SJR November-March

FLEXING E/I RATIO	♦ Shift averaging period from 14 days to 3 days; or flex ratio
RESERVOIR REOPERATION	♦ Coordinate/optimize operation of reservoirs to increase overall system flexibility (look for small reservoir opportunities)
ACCESS TO SURPLUS CVP/SWP STORAGE CAPACITY **ACCESS TO UNUSED DELTA PUMPING CAPACITY**	♦ Access to San Luis and upstream reservoirs ♦ Includes JPOD and EWA access to Banks and Tracy
ACCESS TO UNUSED NON-PROJECT STORAGE	♦ Assume Yuba and SJ tribs on no-harm basis
MARKETS (WILLING SELLER)	♦ Acquisition of upstream water for multiple purposes ♦ Acquisition of in-Delta water ♦ Purchase PG&E reoperation water
SHASTA DAM EXPANSION	♦ Addition of flash boards on Shasta Dam to increase storage capacity by 50 TAF
ALTER FLOOD CONTROL DIAGRAMS	♦ May be limited to the San Joaquin and Stanislaus Rivers ♦ Pursue other small-scale projects in Stage 1 in addition to above efforts
PUMPING TO STORAGE	♦ Good general strategy for expansion of conjunctive use opportunities by optimizing use of groundwater/surface water ♦ Would require additional facilities to maximize use otherwise benefits could be relatively small; could result in spilling of stored water
INTERTIE	♦ 400cfs capacity ♦ Need to determine real benefit of intertie when linked to other assets - staging issue

ERP	♦ Integrate water acquired for ERP flows with WMS/EWA water
SHIFTING REFUGE SUPPLIES	♦ Diversify sources of water for refuges. ♦ Borrow acquired refuge water for EWA. ♦ Increase conveyance efficiency ♦ Use refuges as small-scale storage projects.
ACQUISITION OF IN-DELTA ISLANDS FROM WILLING SELLERS	♦ Reduce application and subsequent run-off/seepage of pesticides
MANAGE DISCHARGE FROM IN-DELTA ISLANDS	♦ Relocate/reroute Delta agricultural drains or hold water for discharge on outgoing tides or for high flow periods
MANAGE SALINITY AND SELENIUM INPUTS	♦ Relocate Delta agricultural drains (see above)
DELTA CROSS CHANNEL	♦ Operate to freshen Delta and to improve export water quality
CONTROL ALGAL GROWTH IN CCF	♦ Needs definition