Study Plan Playsheet

Name:	***Region:***

	Factors	Possible Ranges Qualitative	Concensus Status
GROUP A	Hydrology	Essentially a repeat of history	**Concensus**
		Greater Inter-Annual Variability	**Concensus**
		Extended drought period (beyond historical periods)	**Concensus**
	Climate Change	Essentially a repeat of history	**Concensus**
		Changes in Snowfall/Rainfall Relationships and Changes in Sea Levels (w/o Changes in Total Precipitation)	**Concensus**
		Changes in Long-Term Annual Precipitation	**Concensus**
	Colorado River Supply	Greater than California's 4.4 plan	**Concensus**
		Equal to California's 4.4 plan	**Concensus**
		Less than California's 4.4 plan	**Concensus**
	Allocation of Long-term Contractual Deliveries Among Regions (e.g. SWP, CVP, Colo. R.)	Imports into this region increase as a result of allocation decisions	
		Imports into this region are unaffected by allocation decisions.	
		Imports into this region decrease as a result of allocation decisions.	
	Energy Costs	Substantially higher	**Concensus**
		As projected from current trends	**Concensus**
		Substantially Lower	**Concensus**

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Study Plan Playsheet

Name:	***Region:***

	Factors	Possible Ranges Qualitative	Concensus Status
GROUP B	Drinking Water Standards	Tougher standards and new classes of contaminants are regulated	**Concensus**
		Current and planned standards	**Concensus**
		Lower standards than existing (e.g. many suspected contaminants are found to be less toxic than currently believed)	**Concensus**
	Agricultural Discharge Requirements	Tougher standards and new classes of contaminants are regulated	**Concensus**
		Current and planned standards	**Concensus**
		Lower standards the existing (e.g. many suspected contaminants are found to be less toxic than currently believed)	
	Urban Runoff/Storm-water Management	Increase in use of runoff	**Concensus**
		Current level of use	**Concensus**
		Decrease in use of runoff	**Concensus**
	Environmental Water (Land-Based)	Additional water for environmental use (Managed Wetlands, Native Vegetation, etc)	**Concensus**
		Current water dedication remains in effect	**Concensus**
		Less overall environmental water use	**Concensus**
	Environmental Water (Flow-Based)	Additional water for in-stream uses (CVPIA, VAMP, FERC, etc.)	**Concensus**
		Current water dedication remains in effect	**Concensus**
		Less stringent requirements coupled with flexible application and tradeoffs (e.g. Environmental Water Account, Local IRP's, etc.)	**Concensus**
		Less overall environmental water use	**Concensus**

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Study Plan Playsheet

Name:	*Region:*

	Factors	Possible Ranges Qualitative	Concensus Status
GROUP C	Total Population	Higher than the Department of Finance projections	**Concensus**
		As projected by the Department of Finance	**Concensus**
		Lower than the Department of Finance projections	**Concensus**
	Population Distribution	DOF Projections (at County Level)	**Concensus**
		Higher Northern CA concentration (than DOF Projections)	**Concensus**
		Lower Northern CA concentration (than DOF Projections)	**Concensus**
		Higher Central Valley concentration (than DOF Projections)	**Concensus**
		Lower Central Valley concentration (than DOF Projections)	**Concensus**
		Higher Southern CA concentration (than DOF Projections)	**Concensus**
		Lower Southern CA concentration (than DOF Projections)	**Concensus**
	Population Density	Relatively greater density	**Concensus**
		DOF Projections	**Concensus**
		Relatively lower density	**Concensus**
	Per Capita Income	Higher per capita	**Concensus**
		Current trends	**Concensus**
		Lower than current trends	**Concensus**
	Non-Residential Urban Water Use	*Increase in industrial relative to commercial*	
		Decrease in industrial relative to commercial	
		Current Industrial "mix"	
		Increase in high water-using industry	
		Decrease in high water-using industry	

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Study Plan Playsheet

Name:	***Region:***

	Factors	Possible Ranges Qualitative	Concensus Status
GROUP C (CONTINUED)	Irrigated Acreage	Leveling out at current acreage	**Concensus**
		Continued slow decline due to water availability and urban encroachment	**Concensus**
		Market-based using per acre crop income, production cost (including cost of water) and land availability.	**Concensus**
		Sharper decline	**Concensus**
		Increase in agricultural acreage	**Concensus**
	Crop Demand Hardening	Increase in demand hardening (e.g. Shifts to permanent crops)	
		Current trends	
		Decrease in demand hardening (e.g. Shifts to seasonal crops)	
	Irrigated Land Retirement	Additional land retirement	**Concensus**
		Currently planned land retirement (e.g. CALFED, Westside S.J. Valley, Klamath)	**Concensus**
		Less than currently planned retirement	**Concensus**

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Study Plan Playsheet

Name:	*Region:*

	Factors	Possible Ranges Qualitative	Concensus Status
GROUP D	Desalting	Significant increase in production	Concensus
		Current level of growth (planned projects such as Huntington Beach, Long Beach, or Monterey Bay)	Concensus
		Significant decrease in production	Concensus
	Recycled Water (Treated)	Substantial increase in reuse projects	Concensus
		Existing and currently projected reuse projects	Concensus
		Less than currently projected	Concensus
	Urban Water Use Efficiency	Maximum Increase – Assumes saturation and substantial new technology/methods	Concensus
		All BMP's specified in the existing MOU implemented statewide regardless of cost effectiveness	Concensus
		All cost effective BMP's specified in the existing MOU implemented by regionally within the CALFED solution area	Concensus
		All BMP's specified in the existing MOU implemented by current signatories	Concensus
		All cost effective BMP's specified in the existing MOU implemented by current signatories (present commitment)	Concensus
		Less than currently anticipated	Concensus
	Ag Water Use Efficiency	Maximum increase in efficiency (e.g. saturation of existing and new technology and methods)	Concensus
		As projected using currently anticipated {regional/statewide} cost-effective EWMPs	Concensus
		As projected using currently anticipated {locally} cost-effective EWMPs	Concensus
		Less than currently anticipated	Concensus
	Water Pricing	All users charged the marginal cost of water supply development	
		New users charged the marginal cost of water supply development required to provide service to them	Concensus
		Cost recovery through water charges with increasing block/tiered rates only (no other sources of revenue used to recover costs)	Concensus
		Users charged water use fees for water planning and environmental restoration (note that this range is driven by environmental restoration which could place it anywhere	Concensus
		Current practice - pricing constrained to cost recovery (other sources of revenue can be used to reduce water rates e.g. property taxes)	

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Study Plan Playsheet

Name:	*Region:*

	Factors	Possible Ranges Qualitative	Concensus Status
GROUP E	Water Transfers Within Regions	Substantial increase in water sales and exchanges (Free Market)	Concensus
		Currently approved plus planned transfers	Concensus
		Currently approved transfers	Concensus
		Less than currently approved	Concensus
	Water Transfers Between Regions	Substantial increase in water sales and exchanges	Concensus
		Currently approved plus planned transfers (e.g. CALFED Stage 1, ID/MWD, IID/San Diego, Santa Clara Valley WD, Inbay)	Concensus
		Currently approved transfers	Concensus
		Less than currently approved	Concensus
	Integrated Surface /Groundwater Management	Statewide (integrated) re-operation to maximize reliability	Concensus
		Existing and currently planned integrated management (e.g. Integrated Storage Investigations, MWD IRP, EBMUD IRP, Kern Water Bank, etc)	Concensus
		Existing levels of integration	Concensus
		Less than existing levels of integration	Concensus
	Groundwater Storage Facilities	Substantial increase in groundwater storage	Concensus
		Existing and currently planned groundwater storage	Concensus
		Only existing storage	Concensus
		Less than existing storage due to infrastructure decay, aging facilities, etc	Concensus

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Study Plan Playsheet

Name:	*Region:*

	Factors	Possible Ranges Qualitative	Concensus Status
GROUP E (CONTINUED)	Surface Storage Facilities	Additional storage implemented (e.g.Shasta Enlargement, Los Vaqueros Enlargement, In-Delta Storage, other)	**Concensus**
		Maintain existing surface storage capacity/yield	**Concensus**
		Diminished storage capacity due to infrastructure decay, Siltation, etc	**Concensus**
		Several reservoirs phased out of use	**Concensus**
	Conveyance Facilities	Additional facilities (e.g. state, local, other)	**Concensus**
		Existing and currently planned facilities (e.g. Through-Delta improvements, SWP East Branch Extension, EBMUD-Sac River Connection, etc)	**Concensus**
		Reoperation of Existing Facilities	**Concensus**
		Less than existing facilities due to infrastructure decay, aging facilities, etc	**Concensus**
	Flood Management	Increase in comprehensive flood management practices (e.g reforestation, floodway designations, watershed management)	**Concensus**
		Substantial change in facility operations (e.g increase in allocation of storage capacity to flood management)	**Concensus**
		Current flood management capacity, practices and operations	**Concensus**
	Recreation	Even higher demand for flatwater recreation	
		Even higher demand for whitewater recreation	
		Even higher demand for consumptive recreational uses (I.e., parks, golf courses)	
		Present Demand Trends Continued	
		Less than projected demand for flatwater recreation	
		Less than projected demand for whitewater recreation	
		Less than projected demand for consumptive recreational uses	

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Study Plan Playsheet

Name:	***Region:***

	Factors	Possible Ranges Qualitative	Concensus Status
Special Concern	Occurrence of Catastrophic Events[1]	Drought	
		Earthquake	
		Flood	
		Terrorism/Vandalism	
		Toxic Spill	
		Wildfire	

(1) For this factor of special concern, specific types of catastrophic events have been substituted for "ranges". This factor is designed to be a "toggle" for the occurrence of a catastrophic event under the conditions and circumstances prescribed in the other factors. **Check one or more of these boxes if you want this particular study plan to include an evaluation of the impacts of such events.**

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