

Table 1- Resource Management Strategies Remaining for Further Development and Integration after Preliminary Review

Management Objective	CDWR RMS California Water Plan Update 2009	Strategies Remaining for Development after Preliminary Review	Action
Increase Water Supply	Conjunctive Management & Groundwater Storage	Groundwater banking is # 1 priority for use of underruns. Groundwater development or conjunctive use potential is limited due to low natural recharge, poor water quality. Groundwater storage and banking would help meet goals and objectives. Includes recharge area protection.	+
	Groundwater Development	West Mesa Basin at or near sustainable yield, low natural recharge and yield. and/or poor quality. East Mesa and Central Imperial Valley would requires desal; low natural recharge and yield, existing quality is poor quality.	i
	Desalination	Potential new source (secondary use of Colorado River supply). Desalination source water includes brackish groundwater, drain water, Salton Sea. Link to approach for water exchanges, in- lieu use.	+
	Recycled Municipal Water	Potential new source (secondary use of Colorado River supply). Integrate with disadvantaged community support strategy. Match quality to uses. Link to approach for water exchanges, in- lieu use.	+
	Surface Storage –Local	Integrated as part of systems optimization and conservation in the IID Definite Plan and Systems Conservation Program for small operations reservoirs. Potential for small reservoirs or storage for raw or treated water storage for DACs.	i
	Conveyance – Local	Integrated with Recycling, Groundwater Banking and other local projects.	i
Reduce Water Demand	Agricultural Water Use Efficiency	Primarily existing programs per Definite Plan and Systems Conservation Program. Some additional potential for savings and reuse through systems improvements.	e
	Urban Water Use Efficiency	Need to further define local and regional program. Part of strategy to integrate land use and water supply planning.	+
	Energy Water Use Efficiency	Renewable energy - separated from Urban WUE to emphasize cooling water requirements, alternative sources of supply to Colorado River, and evaluate best management practices for cooling water.	+
Improve Water Quality	Drinking Water Treatment & Distribution	Integrate with DAC strategy, tie to recycling. Needs further analysis and discussion.	TBD
	Matching Quality to Use	Put poor quality water to beneficial use were cost effective.	i
Improve Flood Management	Urban Runoff Management	Emphasis on stormwater for cities.	i
	Flood Risk Management	General treatment of regional flood management.	+
Practice Resources Stewardship	Economic Incentives (Loans, Grants and Water Pricing)	Conduct regional economic analysis of benefits and impacts; cost benefit for projects; and evaluate effects to rates and rate structures. Integrate with and exchange concepts, define economic incentives.	i
	Ecosystem Restoration	Integrate with strategy to mitigate for recycling. Develop regional habitat mitigation banking concept.	i
	Water-Dependent Recreation	Integrate with groundwater banking, stormwater/flood management and habitat mitigation banking where feasible to provide multiple economic and other benefits.	i
	Land Use Planning and Management	Important theme to overcoming Imperial IRWMP conflicts.	i
	Crop Idling for Water Transfers	Integrated with Land Use and Water Management; local transfer, apportionment and exchange concepts. Political applicability to be determined. Needs further policy analysis and economic evaluation.	i
	Water Transfers with Imperial Region	Part of policy alternatives to be further reviewed. Could be part of a local water exchange as described in Draft IID Plan.	i

- + Meets objectives. Develop project concepts.
- i Meets objectives when integrated with other strategies. Develop integrated project program or policy concepts.
- e Does not meet objectives. Eliminate from consideration. Some may be applicable in future and could become part of an adaptive management strategy and considered in future update.
- N/A Not applicable and/or infeasible within Imperial Region.
- X Meets objectives, but existing program deemed adequate. IRWMP will support and promote existing program but not seek to expand, adapt or amend. Such actions could be part of future IRWMP update.

Table 2- Resource Management Strategies Removed from Further Consideration after Preliminary Review

Management Objective	CDWR RMS California Water Plan Update 2009	Strategies Removed from Consideration after Preliminary Review	Action
Increase Water Supply	Precipitation Enhancement	Not Applicable to desert climate.	e
	Surface Storage – Regional	Not feasible- cost, environmental compliance, high evaporative loss, regulatory constraints.	e
	Surface Storage – CALFED	Could influence competition for Colorado river supply by other Southern California Regions.	N/A
Improve Operational Efficiency and Transfers	Conveyance – CALFED	Not Applicable, but could influence competition for Colorado River supplies by other Southern California Regions dependant on Delta supply.	N/A
	Conveyance – Regional/Interregional	Large interregional projects concepts proposed to provide new supplies, facilitate transfers, support Salton Sea Restoration and/or integrate with desalination. Cost prohibitive as compared to other alternatives; limited local political support; could be long term strategy for future.	e
	System Reoperation	Not Applicable. Local approach is part of Definite Plan & System Conservation Plan; Colorado River and Interregional directed by USBR operations and rules for Colorado River.	N/A
	Water Transfers - out of basin	Out-of-basin transfers are not part of Imperial IRWMP	e
	Water Transfers into Region	Not part of currently proposed public project. Others may seek to transfer water in the basin if cost effective. Could be part of long term, adaptive management strategy	e
Improve Water Quality	Pollution Prevention	Existing programs only	X
	Salt and Salinity Management	Existing programs only	X
Practice Resources Stewardship	Agricultural Lands Stewardship	Existing programs only	X
	Forest Management	Not Applicable. Primarily federal lands.	e
	Groundwater Remediation/Aquifer Remediation	Existing programs only	X
	Watershed Management	Not Applicable. Primarily federal lands.	e
Other Strategies	Dewvaporation or Atmospheric Pressure Desalination	Not applicable except as needed to meet small local demands on a project specific basis.	N/A
	Fog Collection	Not applicable	N/A
	Rainfed Agriculture	Not applicable	N/A
	Waterbag Transport/Storage Technology	Not applicable	N/A

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- N/A Not applicable and/or infeasible within Imperial Region.
- X Meets objectives, but existing program deemed adequate. IRWMP will support and promote existing program but not seek to expand, adapt or amend. Such actions could be part of future IRWMP update.