

Water Operations Summary: Gaming Exercise

Scenario #:1B		Target Year: 4	
Possible Water Supply Measures	Details	EWA/ Users Division	How to Model How to Game
Interim South Delta Program - 8.5 kcfs	8.5 kcfs	Projects benefit	Model as Project Supply. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)
JPOD. No individual State/ Federal sublimits	Only overall limits apply	Projects benefit	Model as Project Supply. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)
Eliminate E/I	Eliminate E/I	Projects benefit	Model as Project Supply. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)
Eliminate in-Delta AFRP measures for contract		Projects benefit	Model as Project Supply. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)
Kern Water Bank	300 kaf storage. 20 kaf/month in. 10 kaf/month out.	Projects benefit	Model as Project Supply. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)
Gravelly Ford Groundwater	200 kaf storage? 20 kaf/month in. 10 kaf/month out.	Projects benefit	Model as Project Supply. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)
Shasta Dam Expansion	290 kaf storage	USBR	Model as Project Supply. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)

Possible Water Supply Measures	Details	EWA/ Users Division	How to Model How to Game
Delta Island Storage	240 kaf storage. 120 kaf *2 islands	Projects benefit	Model as Project Supply. 120 kaf operated as forebay to export intakes. Can be filled from Clifton Court at 2 kcfs using Project rights, plus 2 kcfs when Delta out of balance. Remaining 120 kaf can fill only when Delta out of balance. Suite of water supply enhancement measures are controlled by the Projects. In return, EWA gains certain rights against the Projects (see below)
ET reductions on Delta storage islands	30 kaf/year average	Projects benefit	Add to yield of Projects
EWA rights against Projects		EWA	Coupled to water supply enhancement measures, EWA will receive rights to reduce export pumping. The rights will be expressed in terms of cfs-days. Modeling of Project benefits will be required to provide a basis for a sharing of new supply benefits between the EWA and the Projects. EWA's rights against the Projects might vary by year or could be fixed. For example, the EWA might be granted rights to 200,000 cfs-days against the Projects.
Semitropic high priority storage	200 kaf storage	EWA	Operate by hand in game. This storage is not affiliated with State and Federal Projects and may be a place to store supplemental water market acquisitions by the EWA.
SOD water purchase options	100 kaf. Usable 3X every 10 years	EWA	Operate by hand in game
NOD water purchase options	100 kaf. Usable every year.	EWA	Operate by hand in game

Possible Water Supply Measures	Details	EWA/ Users Division	How to Model How to Game
Spot Purchases	Max of 200 kaf per year. Limited by EWA funds.	EWA	Operate by hand in game
Access Surplus Capacity		EWA	Operate by hand in game
Urban efficiency purchase	15 kaf/yr from 500 ktoilet replacements	EWA	Model as Project Supply. Suite of water supply measures are controlled by the Projects. In ret certain rights against the Projects (see above)

Splittail						
	historic	base	game 1	game 2	game 4	FWS/NMFS
1991	44101	34791	30371	34406	27587	34521
1992	8448	9155	7111	7016	5582	4399
1993	100990	122963	111157	100830	117716	74094
1994	932	1169	1185	1065	*	930
1995	4532731	8127509	1940912	2498611	*	1736279

Delta smelt adults						
	historic	base	game 1	game 2	game 4	FWS/NMFS
1991	3417	2348	3418	2385	2107	1881
1992	2103	2219	1913	1664	1174	625
1993	6847	7552	6682	4245	3413	6045
1994	467	404	447	380	*	313
1995	3924	5444	3840	4001	*	3261

Delta smelt juveniles						
	historic	base	game 1	game 2	game 4	FWS/NMFS
1991	34060	18953	25563	18783	18830	19027
1992	7281	2770	6661	2786	3799	2733
1993	44565	49244	51164	51169	64965	18792
1994	46447	40732	72037	29425	*	20197
1995	0	0	0	0	*	0

Splittail						
	historic	base	game 1	game 2	game 4	FWS/NMFS
1991	44101	34791	30371	34406	27587	34521
1992	8448	9155	7111	7016	5582	4399
1993	100990	122963	111157	100830	117716	74094
1994	932	1169	1185	1065	*	930
1995	4532731	8127509	1940912	2498611	*	1736279

Delta smelt adults						
	historic	base	game 1	game 2	game 4	FWS/NMFS
1991	3417	2348	3418	2385	2107	1881
1992	2103	2219	1913	1664	1174	625
1993	6847	7552	6682	4245	3413	6045
1994	467	404	447	380	*	313
1995	3924	5444	3840	4001	*	3261

Delta smelt juveniles						
	historic	base	game 1	game 2	game 4	FWS/NMFS
1991	34060	18953	25563	18783	18830	19027
1992	7281	2770	6661	2786	3799	2733
1993	44565	49244	51164	51169	64965	18792
1994	46447	40732	72037	29425	*	20197
1995	0	0	0	0	*	0