

# New Melones Reservoir and Stanislaus River

Water Year 2005 Operations

March 22, 2005



# New Melones Storage (MAF)

60-20-20	WY	End of Feb	End of Sep
AN	2000	2.008	1.804
D	2001	1.896	1.481
D	2002	1.587	1.278
BN	2003	1.427	1.280
D	2004	1.442	1.110
AN/W	2005	1.437	

# Water Year 2005

- End of Feb Storage = 1,437 TAF
  - 90% forecast of Inflow Mar-Sep = 685 TAF  
with storage is 2,122 TAF
  - 50% forecast of Inflow Mar-Sep = 910 TAF  
with storage is 2,347 TAF
- \* Inflow forecast from DWR March 1, 2005



# Water Year 2005 Stanislaus Hydrology Estimates

Hydrology	90%	50%
Water Year	~1.160 MAF	~1.410 MAF
% of Normal	~95%	~118%
NM WSI	2.1 MAF	2.3 MAF
Sept. Storage	~1.45 MAF	~1.38 MAF

# Late-May 2005 Estimates

Hydrology	90%	50%
Chippis Days	7	29
Vernalis Flow Req. Est	~2350 cfs	~3100 cfs
Goodwin release necessary	~1000 cfs	~1500 cfs
Extra Volume to meet req.	~25 TAF	~38 TAF

# June 2005 Estimates

Hydrology	90%	50%
Chippis Days	3	21
Vernalis Flow Req. Est	~2245 cfs	~2850 cfs
Goodwin release necessary	~1000 cfs	~1500 cfs
Extra Volume to meet req.	~45 TAF	~75 TAF

# Total Estimate towards meeting May-June Base flows

NM WSI	2.1 MAF	2.2 MAF
Total Extra Volume Est.	~70	~120



# Conclusion

- In the event that large flows are prescribed in June 2005, Reclamation recommends consideration of a flexible operation to conserve storage.





# Unimpaired Runoff (1 May) Median April-July Forecast (TAF)

Water-Year	Stanislaus	Tuolumne	Merced
2000	690	1220	630
2001	460	850	430
2002	570	930	410
2003	700	1150	550
2004	430	780	378