

### Delta Smelt (A)

Operations modified to meet Delta Smelt Biological Opinion. Requires Shasta Re-Operation. Makeup includes reduction of Shasta releases in Jan, Feb, Mar. Flows may be augmented with acquired water.

	APR 15-30	MAY 1-14	MAY 15-31	SEP	OCT	DEC	JAN**	FEB**	MAR**	Impact Summary	
										Exports	Storage
VERNALIS (CFS)	5200	5000	4150								
EXPORTS (CFS)	1500	1500	5800								
Export Impacts (TAF)	-110	-103	0								-213
Export recovery (TAF)				+60	+51				+43		+154
Shasta storage withdrawal (TAF)				-60	-47						-107
Shasta storage recovery (TAF)							+30	+28	+30		+88
									<b>Total</b>		-59
											-19

### Delta Smelt (B)

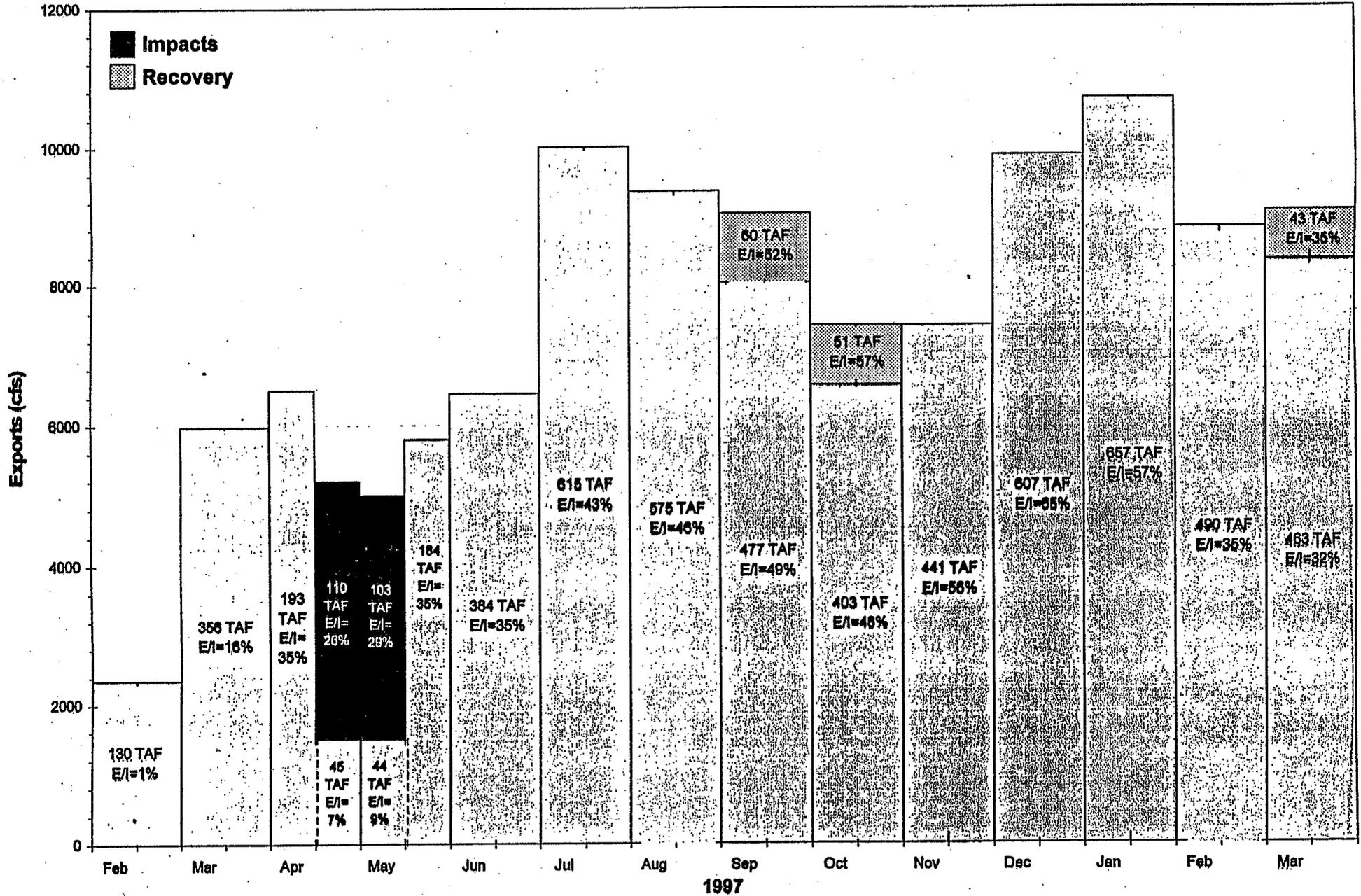
Operations modified to meet Delta Smelt Biological Opinion. Requires Shasta Re-Operation. Makeup includes reduction of Shasta releases in Jan, Feb, Mar and Export/Inflow Ratio relaxation in Dec and Feb. Flows may be augmented with acquired water.

	APR 15-30	MAY 1-14	MAY 15-31	SEP	OCT	DEC	JAN**	FEB**	MAR**	Impact Summary	
										Exports	Storage
VERNALIS (CFS)	5200	5000	4150								
EXPORTS (CFS)	1500	1500	5800								
Export Impacts (TAF)	-110	-103	0								-213
Export recovery (TAF)				+60	+51	+20*		+86*			+213
Shasta storage withdrawal (TAF)				-60	-47						-107
Shasta storage recovery (TAF)							+30	+28	+30		+88
									<b>Total</b>		0
											-19

\* Export recovery requires relaxation of Export/Inflow standards

\*\* Storage recovery requires reduction of upstream releases

**1997 Projected Combined Exports (Delta Smelt A)**  
 April 1 Forecast with 90% Probability Exceedence Hydrology (70% WY 1998)



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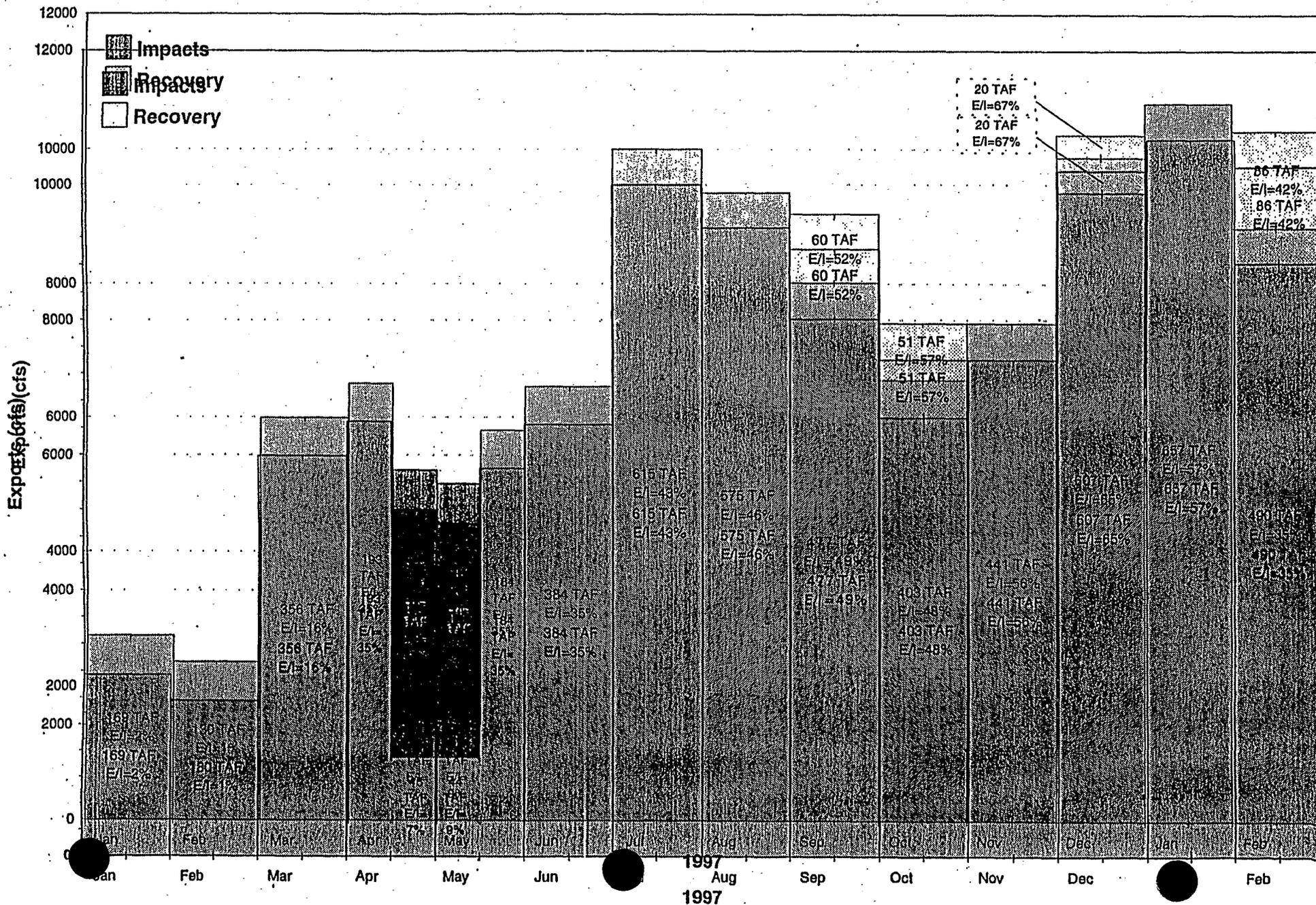
E-034421

# 1997 Projected Combined Exports (Delta Smelt B)

April 1 Forecast with 90% Probability of Exceedence Hydrology (70% WY 1998)

# 1997 Projected Combined Exports (Delta Smelt B)

April 1 Forecast with 90% Probability of Exceedence Hydrology (70% WY 1998)



**VAMP (A)**

Includes options of the Vernalis Adaptive Management Plan. Requires Shasta Re-Operation. Makeup includes reduction of Shasta releases in Jan, Feb, Mar. Requires increased Vernalis flows which are anticipated to come from storage withdrawals with refill agreement. No reoperation impacts are expected.

	APR 15-30	MAY 1-14	MAY 15-31	SEP	OCT	DEC	JAN**	FEB**	MAR**	Impact Summary	
										Exports	Storage
VERNALIS (CFS)	5700	5700	4150								
EXPORTS (CFS)	2250	2250	5800								
Export Impacts (TAF)	-88	-80									-168
Export recovery (TAF)				+60	+24				+43		+127
Shasta storage withdrawal (TAF)				-60	-24						-84
Shasta storage recovery (TAF)							+30	+28	+26		+84
									<b>Total</b>		-41
											0

**VAMP (B)**

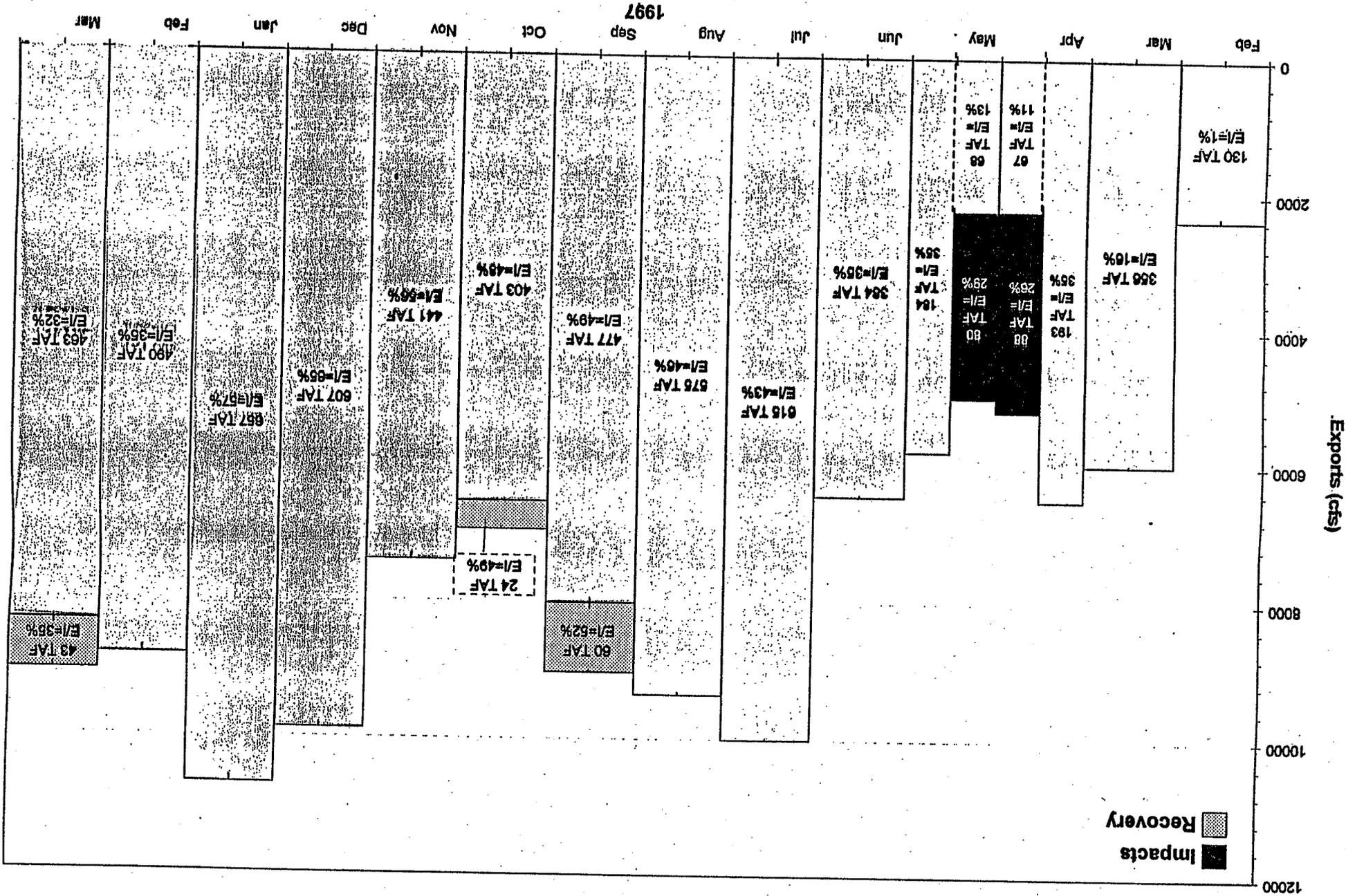
Includes options of the Vernalis Adaptive Management Plan. Requires Shasta Re-Operation. Makeup includes reduction of Shasta releases in Jan, Feb, Mar and Export/Inflow Ratio relaxation in Dec and Feb. Requires increased Vernalis flows which are anticipated to come from storage withdrawals with refill agreement. No reoperation impacts are expected.

	APR 15-30	MAY 1-14	MAY 15-31	SEP	OCT	DEC	JAN**	FEB**	MAR**	Impact Summary	
										Exports	Storage
VERNALIS (CFS)	5700	5700	4150								
EXPORTS (CFS)	2250	2250	5800								
Export Impacts	-88	-80									-168
Export recovery				+60	+24	+20*		+64*			+168
Shasta storage withdrawal				-60	-24						-84
Shasta storage recovery							+30	+28	+26		+84
									<b>Total</b>		0
											0

\* Export recovery requires relaxation of Export/Inflow standards

\*\* Storage recovery requires reduction of upstream releases

1997 Projected Combined Exports (VAMP A)  
 April 1 Forecast with 90% Probability of Exceedence Hydrology (70% WY 1998)



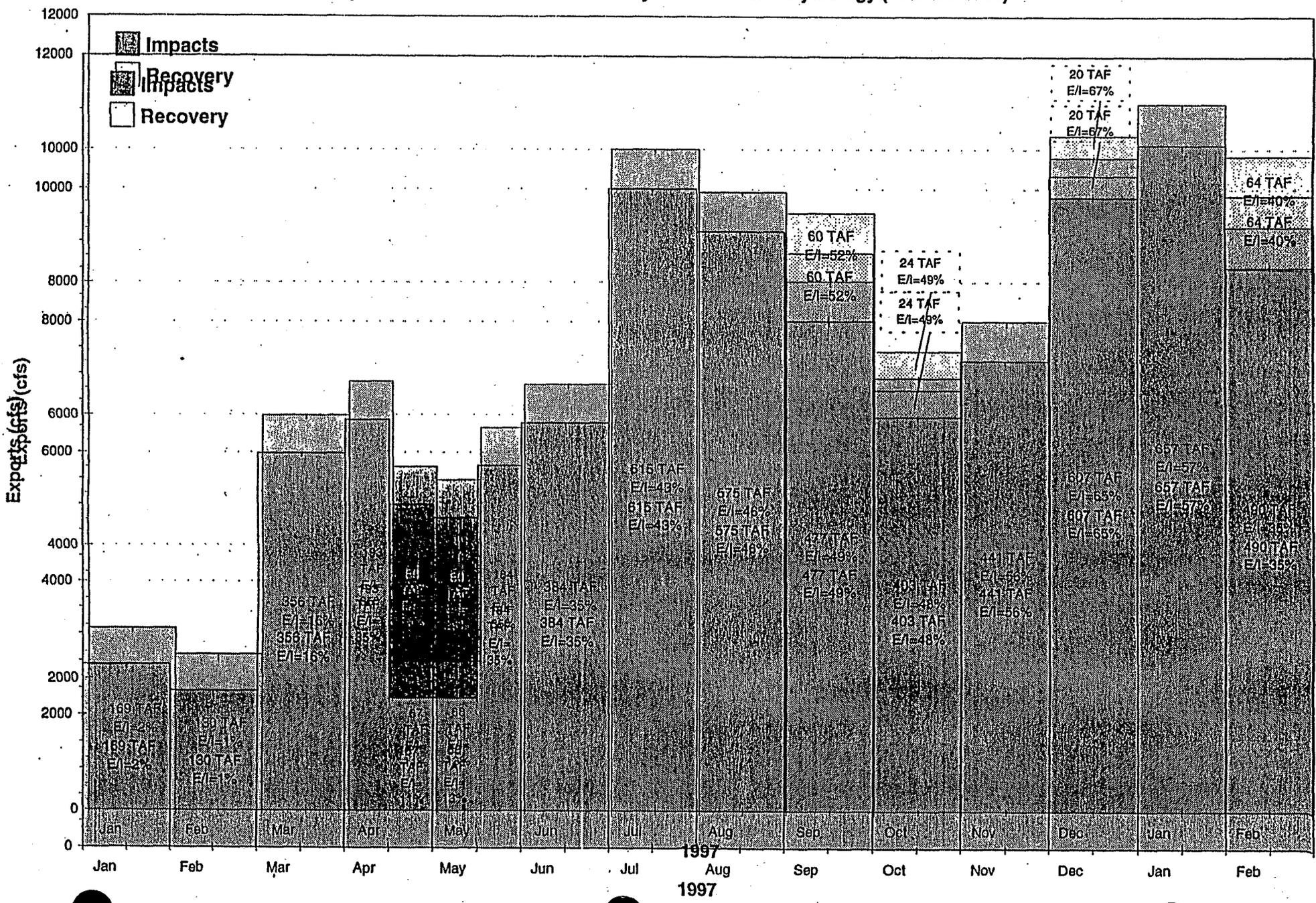
Exports (cfs)

Impacts  
 Recovery

E-034424

**1997 Projected Combined Exports (VAMP B)**  
 April 1 Forecast with 90% Probability of Exceedence Hydrology (70% WY 1998)  
**1997 Projected Combined Exports (VAMP B)**  
 April 1 Forecast with 90% Probability of Exceedence Hydrology (70% WY 1998)

E-034425



E-034425