2006-1

STATE OF CALIFORNIA
THE RESOURCES AGENCY

Hole in Ground 2005

Tables date

DEPARTMENT OF WATER RESOURCES

Branch

Type of gage F Recorder - Div # 165

Drainage area ..... Square miles. Observer .....

FEBRUARY			MARCH			APRIL			MAY			JUNE		
Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	Gage height		Discharge
											off			5.7
														5.7
											off			5.7
											off			
											3.0			5.6
											5.5			5.0
											5.8			5.1
											5.2			5.2
								2.5			5.0			5.2
								3.5			5.0			5.2
								5.1			4.8			5.0
											4.7			5.0
											4.6			5.0
											5.2			5.0
								5.1			5.3			5.0
								5.0			5.3			5.0
											5.3			5.0
								5.0			5.2			3.0
								5.1			5.1			*
								5.0			5.1			*
								5.0			5.3			*
								5.0			5.6			*
								5.1			5.7			*
								5.0			5.7			*
											5.7			
		0			0			81.7			113.1			125.8

*Stored water started - 6-24

162 ac-ft 224 250

Emmerson
Exhibit 49

SHASTA River

Daily Mean Gage Height, in Feet, and Mean Discharge, in Second-Feet, of Div. # 165

At / Near Hole in Ground Ranch for the Year Ending September 30, 19

Day	October Gage height		October Discharge	November Gage height		November Discharge	December Gage height		December Discharge	January Gage height		Discha
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Second-foot-days			0			0			0			0
Mean												
Adjusted mean												
Second-feet per square mile												
Runoff in inches												
Runoff in acre-feet												

Extremes of Record

For Year

t. Disch. ..... Sec.-ft. at ..... on ..... (G. H. ..... ft.). Max. Disch. ..... Sec.-ft. at ..... on ..... (G. H. ..... ft.).

t. Disch. ..... Sec.-ft. on ..... (G. H. ..... ft.). Min. Disch. ..... Sec.-ft. on ..... (G. H. ..... ft.).

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

Hole in Ground 2005

Tables dated

Branch

Type of gage F. Recorder Div. #706

Drainage area ..... Square miles. Observer .....

February			March			April			May			June			Day
Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	
								off			7.4			4.5	
											7.4			4.5	
											7.4				
											7.4				
											7.4			4.5	
											7.4			4.4	
											7.4				
											7.4				
											7.4				
											5.1			4.4	1
											4.5			4.4	1
														4.4	1
														4.5	1
								off						4.5	1
								ON 1200 2.7			4.5			4.6	1
								4.2			4.6			4.4	1
								4.5			4.6			4.4	1
								4.5			4.6			4.6	1
								4.4			4.5			4.5	1
								4.5			4.5			4.5	2
								4.4			4.7			4.4	2
								4.4			4.7			4.4	2
								4.5			4.8			4.4	2
								4.5			4.6		*	4.0	
								4.5			4.7			X	2
								4.5			4.8			X	2
								4.4			5.0			X	2
								4.4			5.0			X	2
								4.4			5.1			X	2
								4.5			4.8			X	2
											4.8				2
		0			0			69.3			170			106	

*Stored water Started 6-24

137 ac ft 337 ac ft 211 ac ft

Permit

Shasta River

Daily Mean Gage Height, in Feet, and Mean Discharge, in Second-Feet, of Div. #166 River / Creek

At / Near Hole in Ground Elec. Pumps. for the Year Ending September 30, 2005

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	Day
1									1
2									2
3									3
4									4
5									5
6									6
7									7
8									8
9									9
10									10
11									11
12									12
13									13
14									14
15									15
16									16
17									17
18									18
19									19
20									20
21									21
22									22
23									23
24									24
25									25
26									26
27									27
28									28
29									29
30									30
31									31
Second-foot-days		0		0		0		0	
Mean									
Adjusted mean									
Second-feet per square mile									
Runoff in inches									
Runoff in acre-feet									

Extremes of Record for Year

Sec.-ft. at ..... (G. H. ..... ft.) on ..... Max. Disch. ..... Sec.-ft. at ..... (G. H. ..... ft.) on ..... Min. Disch. .....

Disch. ..... Disch. .....

Periods of use Hole in Ground 2005

Stored water from Durnnell Res.
1520 ac ft

Day	July Gage height		July Discharge	August Gage height		August Discharge	September Gage height		September Discharge
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									off
28									
29									
30									
31									

Total Water in storage for all 3 of Emerson Ranches = 1,520 ac ft

6-24-05 Turned 8 cfs or 16 ac ft per day out of Storage

This lasted for 95 days

Turned off 9-28-05

Plus - There there is a 2.5 cfs right from Clear Springs

Remarks

Day	Gage height	Discharge
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

Gage height / Discharge	O	N	D	J	F	M	A	M	J	J	A	S

Applied

Checked

Gage height	O	N	D	J	F	M	A	M	J	J	A	S

Copied

Checked

Totals

Calendar Year	Water Year