

ENGINE DATA, CALIFORNIA BAY AND RIVER STEAMERS

Key to Types:

Comp - Compound
Cyl - Cylinder
Horz - Horizontal
Incl - Inclined
NCon - Non-Condensing

QdEx - Quadruple Expansion
Stpl - Steeple
Tand - Tandem
T El - Turbine-Electric
TrEx - Triple Expansion

VB - Vertical Beam

Key to Builders:

Buck - Buckeye Engineering Co., Salem, Ohio
Coff - Geo. Coffee
Cramp - Wm. Cramp & Sons, Philadelphia
D & D - DeVoe & Dinsmore
Evns - C.H. Evans Co., San Francisco

Main - Main Street Iron Works,
San Francisco
Nord - Nordberg Manufacturing
Novl - Novelty Iron Works, N.Y. (Milwaukee
Nptn - Neptune Iron Works, New

Fult - Fulton Iron Works, San Francisco

NRiv - North River Iron Works,
New York

F&H - Fletcher & Harrison, Hoboken, N.J.

P&J - Pusey & Jones, Wilmingt
Del.

GM&G - Gaty, McCune & Glasby, St. Louis
G & S - Gordon & Stern

Quin - Quintard Iron Works, Ne

GE - General Electric Co., Schenectady, N.Y.

Rsdn - Risdon Iron Works,
San Francisco

Glob - Globe Iron Works, Stockton

SP - Southern Pacific Railwa
Sacramento

H&H - Harlan & Hollingsworth, Philadelphia

Stkn - Stockton Iron Works,
Stockton

HMrk - Hunt Mirk & Co., San Francisco

Un - Union Iron Works, San Fr

Llew - Llewellyn Iron Works, San Francisco

West - Westinghouse Manufactur
Pittsburgh

Slvn - John W. Sullivan, New York

NAME OF VESSEL

ENGINES:

Type, Dimensions;
R.P.M. Diam. of Wheels

BUILDER
OF
ENGINES

HORSE-
POWER
BOILER
PRESSU
(POUND

Acme

2 Horz 12" x 4'

102 130

Alameda (No.1)

VB 40" x 10'

350

Alameda (No.2)

2 Tand Comp 20" 40" x 8'

SP

2500

Alviso

2 NCon 15" x 5'

75

Amador

2 Incl 25" x 7'

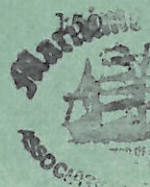
450

110

NAME OF VESSEL	ENGINES: Type, Dimensions; R.P.M. Diam. of Wheels	BUILDER OF ENGINES	HORSE- POWER	BOILER PRESSURE (POUND)
<u>Apache</u>	2 Horz 22" x 8'	SP	566	150
<u>Asbury Park</u>	2 4-Cyl Tr Ex 23" 37½" 43" 43" x 30"	Grmp	5900	175
<u>Aurora</u>	2 Cyl Comp 16" 28" x 6' 4-Cyl Tr Ex		380	150
<u>Aven J. Hanford</u>	~~4-Cyl Tr Ex~~ 20" 29" 30" 30" x 18"	Un	650	175 200
<u>Bay City</u>	VB 52" x 12' 17 R.P.M.	F&H	860	50
<u>Benicia</u>	VB 24' x 7'			80
<u>Berkeley</u>	TrEx 22" 34" 56" x 36"	Un	1450	200
<u>Capital City</u>	Cross Comp 25" 43½" x 9'	Evns	1242	170
<u>Cazadero</u>	VB 56" x 12'	Rsdn	1600	70
<u>Charles Van Damme</u>	2 Cyl Comp 16" 20" x ...		300	175
<u>Cherokee</u>	1 pair Tand Comp 14" 24" x 6'	Main	400	150
<u>Chrysopolis</u>	VB 60" x 12' 36'	Nptn		55
<u>City of San Rafael</u>	Incl Comp 20" 44" x 6'		650	175
<u>City of Seattle</u>	1 Cyl Incl 16" x 5'		270	100
<u>Claremont</u>	2 Comp TrEx 20" 42" x 28"	Un	2000	
<u>Clinton</u>	VB	Coff		
<u>Contra Costa (No.2)</u>	2 Incl 60" x 8' 10 R.P.M.	SP	3000	90
<u>Coronado (No.1)</u>	1 Cyl Incl 20" x 6'	H&H Rsdn	75	125
<u>Delta King, Delta Queen</u>	2 Cyl Comp 26" 52" x 10'	Evns	2000	225
<u>El Capitan</u>	VB 36" x 12'	Novl	250	100
<u>El Paso</u>	TrEx 19" 32" 56" x 36"	Buck	1400	200
<u>Encinal</u>	VB 52" x 12' 24'	Fult	960	50
<u>Feather River</u>	2 Cyl Comp 20" 42" x 28"		2500	200
<u>Fernwood</u>	~~TrEx~~ 2 Comp 20" 42" x 28"	Un	2000	
<u>Flora Temple</u>	1 Cyl Incl 20" x 6'			
<u>Fort Sutter</u>	2 Cyl Comp 25" 50" x 9'	Evns	1200	170
<u>Fruto</u>	1 pair Tand Comp 14" 24" x 6'	Main	325	150

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<u>Garden City</u>	VB 46" x 12'	Fult F & H	942	55
<u>Gila</u>	Horz	Rsdn		
<u>Gold</u> (No.1)	2 Horz 15" x 5'			
<u>H.J. Corcoran</u>	2 Cyl Comp 28" 60" x ...	Glob	500	200
<u>Hayward</u>	T El	GE	1475	225
<u>Helen Hensley</u>	Incl NCon	GM&G		
<u>Herald</u>	Horz 14" x 4½'			130
<u>Iroquois</u>	1 pair 18" x 6'	Rsdn	500	160
<u>Issaquah</u>	Stpl Comp		250	
<u>James M. Donahue</u>	VB 50" x 11'	Quin	390	
<u>Klamath</u>	TrEx 14" 32" 56" x 36"	Nord	1400	200
<u>Knight No. 2</u>	Horz 14" x 6'			110
<u>Lagunitas</u>	Horz	Rsdn	400	
<u>Mary Garratt</u>	2 pair 20" x 6'	Stkn		
<u>Melrose</u>	2 Cyl Tand Comp 22½" 38 3/4" x 8'		1040	175
<u>Modoc</u> (same as <u>Apache</u>)				
<u>Morena</u>	Incl Comp 20" 40" x 6'	HMrk	500	200
<u>Navajo</u> (same as <u>Melrose</u>)		SP		
<u>Newark</u>	VB 65" x 12' 11 R.P.M. 40'	P&J	1237	56
<u>New Orleans</u>	TrEx 19" 32" 56" x 36"	Buck	1400	200
<u>Oakland</u> (ex- <u>Chrysopolis</u>)	VB 60" x 12' 19 R.P.M. 27' 9"	SP (rebuilt)	1357	55
<u>Peralta</u>	T El	West	1475	225
<u>Petaluma</u> (No.3)	Cross Comp 14" 28" x 6' 16 R.P.M. 20'	Rsdn	300	150
<u>Piedmont</u>	1 Cyl Incl 60" x 14'	SP	1385	55
<u>Potrero</u>	Cross Comp 17" 30" x 6'	Rsdn	300	135
<u>Princess</u>	1 pair 14" x 4'	D & D		
<u>Ramona</u> <u>Rambler</u>	1 Cyl Incl 14" x 4' 2 Cyl Incl 20" x 6' 16'	Rsdn	700	150
<u>San Francisco</u>	TrEx 2 Comp 20" 42" x 28"	Un	2000	



NAME OF VESSEL	ENGINES: Type, Dimensions; R.P.M. Diam. of Wheels	BUILDER OF ENGINES	HORSE- POWER	BOILER PRESSURE (POUNDS)
<u>San Jose</u>	2 Cyl Horz 12" x 4'		125	160
<u>San Jose (ferry)</u>	TrEx 18" 27" 42" x 48"	Slyv ⁿ Un	1200	200
<u>San Leandro</u>	T EL	GE	1475	225
<u>San Mateo</u>	TrEx 19" 32" 54" x 36"	Llew	1400	200
<u>San Pablo</u>	Incl Comp 38" 77" x 66" 2	Un	1800	
<u>San Pedro</u>	Incl Comp 38" 77" x 66"	Un	2000	185
<u>San Rafael</u>	VB	NRive		
<u>Santa Clara</u>	2 Tand Comp 20" 40" x 8'	SP	2500	225
<u>Sausalito</u>	VB	NRiv		
<u>Sausalito</u>	VB		1200	
<u>Seizer</u>	Horz	Stkn		
<u>Seminole (same as Melrose)</u>		SP		
<u>Shasta</u>	TrEx 19" 32" 54" x 36"	Llew	1400	200
<u>Silver Gate</u>	2 Cyl 20" x 20"	Un		112
<u>Solano</u>	2 VB 60" x 10'	H&H	2500	
<u>Tamalpais</u>	Incl Comp 36" 73" x 62"	Un	1200	125
<u>Tiburon</u>	VB 50" x 11'	Fult	750	
<u>Tiger</u>		Fult		
<u>Thoroughfare (No.2) (Same as Melrose)</u>			1300	152
<u>Transit</u>	VB 60" x 10'	H&H	1533	
<u>Tuolumne City</u>		Glob		
<u>Ukiah</u>	VB 65" x 12'	Fult	1500	50
<u>Wilson G. Hunt</u>	1 cyl Stpl 36" x 9'			
<u>Vallejo</u>	1 Cyl Incl 22" x 5'		455	115
<u>Yerba Buena (No.1)</u>	TrEx 18" 27" 42" x 48"	Slyv ⁿ Un	1200	200
<u>Yerba Buena (No.2)</u>	T EL	West	2600	265
<u>Yosemite</u>	TrEx 19" 32" 56" x 36"	Llew	1400	200

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Key to Builders:

Buck - Buckeye Engineering Co., Salem, Ohio	Main - Main Street Iron Works, San Francisco
Crmp - Wm. Cramp & Sons, Philadelphia	North - Nordberg Manufacturing
Dunc - R. Duncan, New York	Novl - Novelty Iron Works, N.Y.
Evns - C.H. Evans Co., San Francisco	Nptn - Neptune Iron Works, New York
Fult - Fulton Iron Works, San Francisco	NRiv - North River Iron Works, New York
F&H - Fletcher & Harrison, Hoboken, N.J.	P&J - Pusey & Jones, Wilmington, Del.
GM&G - Gaty, McCune & Glasby, St. Louis	Quin - Quintard Iron Works, New York
GE - General Electric Co., Schenectady, N.Y.	Rsdn - Risdon Iron Works, San Francisco
Glob - Globe Iron Works, Stockton	SP - Southern Pacific Railroad, Sacramento
H&H - Harlan & Hollingsworth, Philadelphia	Stkn - Stockton Iron Works, Stockton
HMrk - Hunt Mirk & Co., San Francisco	Sln - John W. Sullivan, New York
Llew - Llewellyn Iron Works, San Francisco	Un - Union Iron Works, San Francisco
	West - Westinghouse Manufacturing, Pittsburgh

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<u>Acme</u>	2 Horz 12" x 4'		102	130
<u>Alameda</u> (No.1)	VB 40" x 10'		350	
<u>Alameda</u> (No.2)	2 Tand Comp 20" 40" x 8'	SP	2500	225
<u>Alviso</u>	2 NCon 15" x 5'		75	125
<u>Amador</u>	2 Incl 25" x 7'		450	110

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<u>Apache</u>	2 Horz 22" x 8'	SP	566	150
<u>Asbury Park</u>	2 4-Cyl Tr Ex 23" 37 $\frac{1}{2}$ " 43" 43" x 30"	Crmp	5900	175
<u>Aurora</u>	2 Cyl Comp 16" 28" x 6'		380	150
<u>Aven J. Hanford</u>	4-Cyl Tr Ex ~~4-Cyl~~ 20" 28" 30" 30" x 18"	Un	650	175 200
<u>Bay City</u>	VB 50" x 12' 17 R.P.M.	F&H	860	90-50
<u>Benicia</u>	VB 24" x 7'			80
<u>Berkeley</u>	TrEx 22" 34" 56" x 36"	Un	1450	200
<u>Capital City</u>	Cross Comp 25" 43 $\frac{1}{2}$ " x 9'	Evns	1242	170
<u>Cazadero</u>	VB 56" x 12'	Rsdn	1600	70
<u>Charles Van Damme</u>	2 Cyl Comp 16" 20" x ...		300	175
<u>Cherokee</u>	1 pair Tand Comp 14" 24" x 6'	Main	400	150
<u>Chrysopolis</u>	VB 60" x 12' 36'	Nptn		55
<u>City of San Rafael</u>	Incl Comp 20" 44" x 6'	Evns	650	175
<u>City of Seattle</u>	1 Cyl Incl 16" x 5'		270	100
<u>Claremont</u>	2 1 Cyl Comp 20" 42" x 28" ~~TrEx~~	Un	2000	
<u>Contra Costa (No.2)</u>	2 Incl 60" x 8' 10 R.P.M.	SP	3000	90
<u>Coronado (No.1)</u>	1 Cyl Incl 20" x 6'	~~MS&H~~ Rsdn	75	125
<u>Delta King, Delta Queen</u>	2 Cyl Comp 26" 52" x 10'	Evns	2000	225
<u>El Capitan</u>	VB 36" x 12'	Novl	250	100
<u>El Paso</u>	TrEx 19" 32" 56" x 36"	Buck	1400	200
<u>Encinal</u>	VB 52" x 12'	Fult	960	50
<u>Feather River</u>	2-2 Cyl Comp 20" 42" x 28" 24'	Un	2500	200
<u>Fernwood</u>	~~2-2 Cyl Comp~~ 2-2 Cyl Comp 20" 42" x 28"	Un	2000	
<u>Fort Sutter</u>	2 Cyl Comp 25" 50" x 9'	Evns	1200	
<u>Fruto</u>	1 pair Tand Comp 14" 24" x 6'	Main	325	150

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<u>Garden City</u>	VB 46" x 12'	Falt F&H	942	55
<u>Gila</u>	Horz	Rsdn		
<u>H.J. Corcoran</u>	2 Cyl Comp 28" 60" x ...	Glob	500	200
<u>Hayward</u>	T El	GE	1475	225
<u>Helen Hensley</u>	Incl NCon	GM&G		
<u>Herald</u>	Horz 14" x 4 $\frac{1}{2}$ '			130
<u>Iroquois</u>	1 pair 18" x 6'	Rsdn	500	160
<u>Issaquah</u>	Stpl Comp		250	
<u>James M. Donahue</u>	VB 50" x 11'	Quin	390	
<u>Klamath</u>	TrEx 14" 32" 56" x 36"	Nord	1400	200
<u>Knight No. 2</u>	Norz 14" x 6'			110
<u>Lagunitas</u>	Horz	Rsdn	400	
<u>Melrose</u>	1 pair Tand Comp 22 $\frac{1}{2}$ " 38 3/4" x 8'		1040	175
<u>Modoc (same as Apache)</u>				
<u>Morena</u>	Incl Comp 20" 40" x 6'	HMrk	500	200
<u>Navajo (same as Melrose)</u>		SP		
<u>Newark</u>	VB 65" x 12' 11 R.P.M. 40'	P&J	1237	56
<u>New Orleans</u>	TrEx 19" 32" 56" x 36"	Buck	1400	200
<u>Oakland</u> (ex-Chrysopolis)	VB 60" x 12' 19 R.P.M. 27' 9"	SP (rebuilt)	1357	55
<u>Peralta</u>	T El	West	1475	225
<u>Petaluma (No.3)</u>	Cross Comp 14" 28" x 6' 16 R.P.M. 20'	Rsdn	300	150
<u>Piedmont</u>	1 Cyl Incl 60" x 14'	SP	1385	
<u>Potrero</u>	Cross Comp 17" 30" x 6'	Rsdn	300	135
<u>Ramona</u>	2 Cyl Incl 20" x 6'	Rsdn	700	
<u>San Francisco</u>	~~TrEx~~ 2-2 cyl comp 20" 42" x 28"	Un	2000	

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<u>San Jose (ferry)</u>	TrEx 18" 27" 42" x 48"	Un-Silver	1200	200
<u>San Leandro</u>	T EL	GE	1475	225
<u>San Mateo</u>	TrEx 19" 32" 54" x 36"	Llew	1400	200
<u>San Pablo</u>	Incl Comp 38" 77" x 66"	Un	1800	
<u>San Pedro</u>	Incl Comp 38" 77" x 66"	Un	2000	185
<u>San Rafael</u>	VB 50" x 11'	NRiv		
<u>Santa Clara</u>	2 Tand Comp 20" 40" x 8'	SP	2500	225
<u>Saucelito</u>	VB 50" x 12'	NRiv		
<u>Sausalito</u>	VB		1200	
<u>Seizer</u>	Horz	Stkn		
<u>Seminole</u> (same as <u>Melrose</u>)				
<u>Senator</u>	VB 50" x 11'	Dunc	450	
<u>Shasta</u>	TrEx 19" 32" 54" x 36"	Llew	1400	200
<u>Silver Gate</u>	2 Cyl 20" x 20"	Un		112
<u>Solano</u>	2 VB 60" x 10'	H&H	2500	
<u>Tamalpais</u>	Incl Comp 36" 73" x 62"	Un	1200	125
<u>Tiburon</u>	VB 50" x 11'	Fult	750	
<u>Tiger</u>		Fult		
<u>Thoroughfare</u> (No.2)	(Same as Melrose) ~~1 pair Tand Comp~~ ~~22 1/2" 38 3/4" x 8'~~		1300	
<u>Transit</u>	VB 60" x 10'	H&H	1533	
<u>Tuolumne City</u>		Glob		
<u>Ukiah</u>	VB 65" x 12'	Fult	1500	50
<u>Wilson G. Hunt</u>	1 Cyl Stpl 36" x 9'			
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