APPENDIX

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Document No. 1.

IN THE ASSEMBLY.]

[SESSION OF 1854.

ANNUAL REPORT

OF THE

TREASURER

OF THE

STATE OF CALIFORNIA.

[GEORGE KERR, STATE PRINTER.

REPORT.

STATE TREASURER'S OFFICE, Benicia, Dec. 15, 1853.

To His Excellency, JOHN BIGLER, Governor of the State of California-

Sir :

In conformity with "An Act concerning the office of State Treasurer," approved January 24, 1850, the following Annual Report for the Fiscal Year, ending June 30, 1853, is herewith respectfully submitted.

Your obedient servant,

RICHARD ROMAN, State Treasurer

FROM WHOM RECEIVED.	3 per cent. bonds.	INTEREST.	WARRANTS.	CASH.
1852, June 30, Balance in the Treasury, July 2, Treasurer of Yuba county,	\$9,900 00			\$32,198 81 1,691 84
" 5, " Santa Cruz county,				146 30
"7, "San Francisco"	10,575 00	\$8,274 00		15,544 62
" 7, " Santa Barbara "	,			401 80
"7, "Sacramento, "				2,578 89
" 8, " Placer "				2,152 32
" 19, Commissioner of Emigrants,				12,008 00
" 12, Treasurer of Siskiyou county,				459 23
" 22, " Placer "				1,446 41
" 23, " El Dorado " " 23 " San Luis Obisno county				3,030 28
				583-50 737-0
				24,177 5
Aug. 4, Commissioners of Emigrants, - - "11, Treasurer of Los Angeles county, - -				1,728 00
" 24 , "Monterey "				422 27
Sept. 1, " Placer "	}			2,308 25
" 8, Commissioners of Emigrants,				12,996 00
" 16, Treasurer of San Joaquin county,				3,040 79
" 17, " Solano "	ļ			570-26
" 20, Secretary of State,				310 00
" Comptroller of State,			\$235 00	
Oct. 4, Treasurer of Yuba county,				3,164 83
" 8, Commissioner of Emigrants,				1,977-90

RECEIPTS INTO THE STATE TREASURY DURING THE FISCAL YEAR ENDING JUNE 30, 1853.

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Appendix No.

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		FROM	WHOM RECEIV	ED.					3 PER CEN BONDS.	TT.	INTEREST.	WARRANTS.	CASH.
			Santa Clara co			-		-	\$100	00	\$ 93 80		\$1,890
"	15,	"	San Francisco		-				ł				4,178
"	16,	"	Colusi	"		-		-					38
"	16,	"	Colusi	"	-		-					·	1,139
"	18,	"	Tuolumne	"		-		-	100	00	36 00	$600 00^2$	4,460
"	18,	"	${f Tuolumne}$	"	-		-					1	3,024
"	20,	۲۵	Contra Costa	"		-		-				1	$2,\!480$
Nov	. 1,	"	Sutter	"	-		-						500
"	- 8,	Commissioner	r of Emigrants			-		-				1	5,049
"	16,	Treasurer of	El Dorado cou	ınty,	-		-		1				10,395
66	18,	"	Placer	"		-		-		1		i	10,584
"	20,	"	Trinity	"	-		-					: :	766
Dec	. 9,	46	Sacramento	"		-						i 1	12,078
"	10,	Commissioner	r of Emigrants,				-						1,258
"			San Joaquin d			-		-	ł	i		1	10,398
"	15,	"	San Francisco		-		-		1,025	00	975 57	,	$27,\!480$
"	15,	"	Tuolumne	"		-				į		1	3,250
"	21,	"	Contra Costa	"	-		-					<u> </u>	6,679
"	22,	"	Monterey	"		-		-					5,399
"	22,	"	Shasta	"	-		-		1			1	429
"	24,	"	Placer	"		-		-	}				1,307
"	28,	"	Klamath	"	-							i	549
"	29,	"	Nevada	"		-		-	1			1	8,405
"		Secretary of			-		-		ł				200

RECEIPTS INTO THE STATE TREASURY-CONTINUED.

Appendix

"28," San Diego 595 11 Feb. 1, City of San Francisco, per Commissioners Funded Debt, 10,000 00 \neg "3, Commissioner of Emigrants, 2,403 50 "3, Treasurer of Mariposa county, - 6,091 28 "4," Los Angeles" 7,626 53 "14," Los Angeles" - "14," Calaveras - "28," San Francisco city, 3,575 00 "19," El Dorado county, - "4, Treasurer of Solano county, - 4,916 25 "4, Treasurer of Solano county, - 4,916 25 "5," Napa<" - "5," Napa - "11," Yuba<" 8,084 68 "11," Yuba<" 8,084 68	1853, Jan. " " " " " " "	3, 4, 5, 6, 0, 10, 17, 17, 20, 20, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	" District Attor Treasurer of Commissioner Secretary of Treasurer of " " " "	Santa Barbara G Sonoma Marin Yolo Yolo Calaveras Tuolumne	county	-	-	-	100	00	99	00		\$1,514 6,427 769 3,782 3,092 612 3,028 4,665 3,014 780 3,795 4,000 2,000	11 63 95 73 75 00 54 58 68 48 53 00 00	No. 1.
Field 1, City of San Francisco, per Commissioner's Funded Debt, 10,000 00 "3, Commissioner of Emigrants, 2,403 50 "3, Treasurer of Mariposa county, - "4," Napa<"	""	28,		San Diego	"	-		-		ł						
"3, Treasurer of Mariposa county,"4," Napa"-"14," Los Angeles"-"14," Calaveras-"14," Calaveras-"14," Calaveras-"14," Calaveras-"16," Siskiyou2,943"28," San Francisco city,3,575"19," El Dorado county,-"4, Treasurer of Solano county,-"5," Napa-"5," Napa-"11," Yuba100"11, Secretary of State,8,084"11, Secretary of State,180	Feb.	1,	City of San F	rancisco, per Cor	umissioner	s Fur	nded	Debt,	I	1						~
"4, "Napa1,725 00"14, "Los Angeles "-7,626 53"14, "Calaveras "5,870 96"16, "Siskiyou2,943 02"28, "San Francisco city,3,575 00"19, "El Dorado county,3,575 00March 3, Commissioner of Emigrants,-"4, Treasurer of Solano county,100 0096 203,963 49"5, "Napa<"-	"								1				j			
"4, "Napa1,725 00"14, "Los Angeles"7,626 53"14, "Calaveras5,870 96"16, "Siskiyou2,943 02"28, "San Francisco city,3,575 00"19, "El Dorado county,3,575 00March 3, Commissioner of Emigrants,4,916 25"4, Treasurer of Solano county,100 0096 203,963 49"5, "Napa<"	"	- 3,	Treasurer of	Mariposa count	у,	-		-						6,091	28	
"14,"Los Angeles "- $7,626$ 53"14,"Calaveras "- $5,870$ 96"16,"Siskiyou " $2,943$ 02"28,"San Francisco city, $3,575$ 00 $3,421$ "19,"El Dorado county,- $3,682$ 66 March 3, Commissioner of Emigrants,- $4,916$ 25 "4, Treasurer of Solano county,100 96 20 $3,963$ "5,"Napa "- 760 00 "11,"Yuba " $8,084$ 68 "11, Secretary of State,180 00	66						-			ł		1				
"14, "Calaveras " 5,870 96 "16, "Siskiyou " 2,943 02 "28, "San Francisco city, 3,575 00 "19, "El Dorado county, "4, Treasurer of Solano county, "5, "Napa " 100 00 "11, "Yuba " 8,084 68 "11, Secretary of State, 180 00	""	14,	66			-			1					7,626	53	
"16, "Siskiyou " 2,943 02 "28, "San Francisco city, "19, "El Dorado county, " 3,575 00 March 3, Commissioner of Emigrants, "4, Treasurer of Solano county, "5, "Napa " 3,682 66 "11, "Yuba " 100 00 "11, Secretary of State, "11, Secretary of	46				-		-							5,870	96	
"28," San Francisco city, 3,575 00 3,421 19! 5,113 31 "19," El Dorado county, - 3,682 66 March 3, Commissioner of Emigrants, - 4,916 25 "4, Treasurer of Solano county, 100 00 96 20 3,963 49 "5," Napa - 760 00 "11," Yuba 8,084 68 180 00	"			Siskiyou "					1					2,943	02	
"19, "El Dorado county, 3,682 66 March 3, Commissioner of Emigrants, - 4,916 25 "4, Treasurer of Solano county, '5, "Napa " 100 00 "11, "Yuba " 760 00 "11, Secretary of State, '11, Secretary of State, '12 180 00	"				ity,				3,575	00	3,421	19	ι			
March 3, Commissioner of Emigrants, - 4,916 25 "4, Treasurer of Solano county, 100 00 96 20 3,963 49 "5," Napa" - 760 00 "11," Yuba" 8,084 68 180 00	65					-		-	· ·				Í	3,682	66	
"4, Treasurer of Solano county, 100 00 96 20 3,963 49 "5, "Napa " 760 00 "11, "Yuba " 8,084 68 "11, Secretary of State, 180 00	Marcl				-					ĺ			1			
"5, "Napa " 760 00 "11, "Yuba " 8,084 68 "11, Secretary of State, 180 00									100	00	96	20				
" 11, "Yuba " " 11, Secretary of State, 180 00	66									ł			1			
" 11, Secretary of State, 180 00	" (11,	"						ł				1	8,084	68	
	"	11,	Secretary of	State,					1							
	"			"					1					65	00	

RECEIPTS INTO THE STATE TREASURY-CONTINUED.

FROM WIIOM RECEIVED.	3 PER CENT. BONDS.	INTEREST.	WARRANTS.	CASH.
 1853, Mar. 15, Treasurer of Tuolumne county, "15, Comptroller of State, "22, Treasurer of San Joaquin county, "26, City of San Francisco, per Hiram Pearson, "29, Treasurer of Sacramento county, "31, "Trinity " April 2, "Calaveras " "5, Commissioner of Emigrants, "7, City of San Francisco, per D. W. Conelly, "8, """"Commission of Funded Debt, "13, Treasurer of El Dorado county, "22, "Solano " "29, City of San Francisco per Commis'rs of Funded Debt, "20, City of San Francisco per Commis'rs of Funded Debt, "10, Treasurer of San Francisco county, "20, "Placer " "20, City of San Francisco per Commis'rs of Funded Debt, "10, Treasurer of Napa county, "10, "Contra Costa county, "10, "Contra Costa county, "13, Secretary of State, "20, "Nevada " 	\$225 00 600 00	\$254 68 624 00		$\$5,600 \ 00$ 1,746 15 1,312 50 3,320 07 436 93 800 00 3,595 50 212 50 7,000 00 2,312 56 8,267 95 6,718 50 17,195 88 9,000 00 2,300 00 2,300 00 841 47 4,834 80 283 70 600 20 99 20 806 66 7,230 99

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Appendix

18.	53, June	21, 1	l'reasurer	of Shasta coun								1	•		2,178	88	\mathbf{Z}
	44	21,	44	— San Joaqaii	a county,	~	~								935	22	
	"	22,	••	Yuba									\$1,279	00	3,892	32	
	• •	28,	••	Tuolwinie	••	-	-								1,400		
		23,	16	Butte	* =				3100	00	$\pm 106	30			3,153		
03	::	29,	:6	Siskiyou	, 6	-	-		-		a				1,599		
		29, (ity of Emigran										1	5,337		
	46	30, 1	fier verer o	of San Diego e	county,	-	-					ĺ		1	3	80	
Re	ceived (br ${ m \acute{B}e}$	i's issued	Act April 29,	1851, -		\$41,500	00:									
Iss	ued Ad	et Mr	1,1852,	/	-	•	1,052,500							1			
	nd Wer			-			237,120							1			
			ificat ⁱ li iss	ued	-	-	22,529			1				į			
				rrants for which	h no Certifi	-	,							i			
			iceucal,	-				92						1			
							1,353,080	00 \$	26,400	00	\$1 3,984	0/1	\$2,565	00	\$ 454,135	61	9
			Tot.	d, \$1,850,73	64 65,			r		1				ļ			

PAYMENTS OUT OF THE STATE TREASURY DURING THE FISCAL YEAR ENDING JUNE 30, 1853,

Paid out of the General Fund, Warrants Redeemed,	\$1,378,991	98		
Temporary State Loan Bonds Redcemed, Principal, .	72,200			
Temporary State Loan Bonds Redeemed, Interest, Treasurer's Certificates Redeemed,	68,195 20,515	85 93	1,589,903	76
Paid out of Interest Fund of 1851, \$34,500. Bonds redeemed, Interest,	33,912 34,587	- 50	58,499	
Paid out of Interest Fund of 1852, Interest,			56,439	
Paid out of School Fund. Temporary State Loan Bonds redeemed, Principal. Paid out of School Fund, Temporary State	1,950			
Loan Bonds redeemed, Interest,	1,950	45 	8,900	45
Paid out of Sacramento State Hospital Fund, Warrants on the Hospital Fund paid	29,384	61		
Temporary State Loan Bonds redecmed, Principal	2,475	00		
Interest,	1,940	77	33,800	38
Paid out of Stockton State Hospital Fund, Warrants on the Hospital Fund, Temporary State Load Bonds Redcemed,	21,521	30		
Principal,	2.500	00		
Interest,	1,933	85	25,975	15
Paid out of San Francisco State Marine Hospital Fund, Warrants on Hospital Fund,			66,166	97
Paid out of State Library Fund, Warrants on Fund,			755	

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PAYMENTS OUT OF STATE TREASURY-CONTINUED.

Paid out of Military Fund, Warrants on Fund, .	60 20
Balance in the Treasury, Temporary State Loan Bonds,	$\begin{array}{r} 9,900 \ 00 \\ 55,333 \ 74 \\ \hline \end{array} \qquad \qquad$
In General Fund Temporary State Loan Bonds, . Cash, . In Interest Fund of 1851, Cash, . In School Fund, Cash, . In Stockton State Hospital Fund, Cash, . In Insane Fund, cash, . In State Prison Interest Fund, Cash, .	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Less Amount due by Interest Fund of 1852,	76,432 21 11,198 47
-	65,233 74 \$1,850,734 65

		FRO	M WHOM RECEIVED.						3 PER CEN BONDS.	т.	INTEREST.	WARRANT	s.	CASII.
852 June	30,	Λmount i	n Fund, .	•		——		•	\$9,884 0	0				\$6,169
July	2, '	Treasurer	of Yuba county, .		•				ļ.					169
"	- 5,	"	Santa Cruz count					•	1					68
"	7.	"	San Francisco con	inty,					5,600 0	00	\$4,379 68			13,201
"'	7, 7,	4:	Sacramento	"										644
66	7,	"	Santa Barbara	"										308
66	8,	"	Placer	"					1					2,152
"	12,	"	Siskiyou	"					į				j	170
"	22,	"	Placer	"				•	1					1,017
"	23,	"	San Luis Obispo	"					ł				1	437
"	23,	64	El Dorado	"										3,030
44	26,	"	Sutter	"							i		1	566
Aug.		"	Los Angeles	"					1					1,544
	$\hat{24},$	66	Monterey	"							1		-	113
Sept.	1,	"	Placer	"	•		•				1		İ	2,308
	16,	"	San Joaquin	٤.		•	_	•	1	ł				2,452
66	17,	"	Solano	"	•		-	_	ł	1				517
Oct.	4,	"	Yuba	"		•		•	i	í			·	3,013
"	9,	"	Santa Clara	"	•		•	_	100 0	00	93 80			1,020
66	15,	"	San Francisco	"		•		•	1 100 0	Ĭ	22 00			4,027
"	16, 16,	"	Colusi	"	•		•							887
"	18, 18,	"	Tuolumne	"		•		•	100 0	0	36 00	\$600	00 ¹	4,460
"	18,	"	Tuolumne	"	•		•		1 100 0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ell, 3 3 0		1,553
Nov.		"	Sutter	"		•		•						365

GENERAL FUND RECEIPTS.

1852.	Nov.	16.	Treasurer of	El Dorado	"		•			,				1		\$10,395	50	No.
,		18,		Placer	"					1		•		i	į	° 9,359	32	<u>.</u>
	"	$\hat{2}0,$	"	Trinity	"					ł						732	71	
	Dec.	-9,	"	Sacramento	"											120	40	
		15,	"	San Joaquin	"							1			k 1	2,594	58	
	"	15,	"	San Francisco	"							1			t	253	90	
	"	15,	"	Tuolumne	"			-		1		1		ł		$3,\!250$	00	
	"	18,	"	School Fund,			-					1			;	405	72	
	"	$\hat{2}1,$	66	Contra Costa con	mtv.	•						1			1	891		
	"	22,	"	Monterey	"							i.			1	597	43	
	"	22,	"	Shasta	"									+	j	157	34	
	"	24,	"	Placer	"					1					Í	140	98	
	"	$\bar{28},$	"	Klamath	"											544	44	
	"	29,	"	Nevada	"					1					Ì	6,787	23	
1553,	Jan.	-°,	"	Sutter	"					1		1			1	518	12	10
10000,	66 66	- 3,	"	El Dorado	"					Í		, 		1	i	3,989	66	ಲು
	"	4,	"	San Luis Obispo	"		•									87	12	
	"	- 5,	"	Sonoma	"							l l				2,909	95	
	"	6.		Butte	"						100 00	: 0	0 00	0	i	2,225	52	
	66	10.	Secretary of	State.		•						1				-302	00	
	"			Santa Barbara co	unty,				•					1	ţ	401		
	"	17,		Sonoma	"	•						I			ł	1,179		
	"	18,		Marin	"							1		L	1	676		
	"	20,		Yolo	"					1				t	1	597	62	
	"	20,	"	Yolo	"					i i		, I		1	1	$1,\!147$	12	
	"	20,	""	Calaveras	"							:				4,000	00	
	"	25,	"	Tuolumne	"				•	4				ł		2,000	00	
	"	29.	"	San Diego	"					i -		ł				191	33	
	Feb.	1,	City of San F	'rancisco per Com	nis'rs	of I	Fund	led I	Debt	,		ı			ļ	10,000	00	
	"	-4,	Treasurer of	Mariposa county,	,					1				1	1	5,107	98	

	FROM	WHOM RECEIVE	3D.			8 per cent. Bonds.	INTEREST.	WARRANTS.	CASII.
1853, Feb. " " March " March " " March " " March " " March " " " " " " " " " " " " " " " " "	4, Treasurer of 14, " 14, " 16, " 19, " 28, " 14, " 19, " 28, " 11, " 15, " 22, " 26, City of San 29, Treasurer of 31, " 2, " 7, City of San 8, " 13, Treasurer of 29, City of San	f Napa county, Los Angeles Calaveras Siskiyon El Dorado San Francisco Solano county Yuba " Tuolumue " San Joaquin c Francisco per L of Sacramento co Trinity Calaveras	" " " " " " " " " " " " " " " " " " "	nely, f Fund	•	\$3,575 00			$\begin{array}{c} \$360 & 00\\ 1,166 & 33\\ 4,156 & 58\\ 2,048 & 63\\ 2,048 & 63\\ 2,682 & 66\\ 135 & 04\\ 2,744 & 82\\ 5,762 & 40\\ 242 & 30\\ 1,312 & 50\\ 928 & 36\\ 147 & 20\\ 800 & 06\\ 212 & 50\\ 7,000 & 00\\ 8,267 & 95\\ 99 & 08\end{array}$
June	20, " 20, City of San	Placer Francisco per C f Napa county, Marin " Contra Costa	ommis'rs of	Fund	ed Debt,				$\begin{array}{c} \textbf{7,380} & \textbf{50} \\ \textbf{2,300} & \textbf{00} \\ \textbf{289} & \textbf{55} \\ \textbf{78} & \textbf{40} \\ \textbf{66} & \textbf{62} \end{array}$

GENERAL FUND RECEIPTS-CONTINUED.

Appendix

1853, June 13, Secretary of State, .			1		\$ 99 2 0	No.
" 20, Treasurer of Sonoma county,					$128 \ 30$	
" 20, " Nevada " .				\$186 00	$6,221\ 00$	
" 21, " Shasta "					1,874 29	
	•				193 56	
	• •			1,279 00	2,979 37	
ution وشک	• •			1,210 00	114 89	
" 23, " Tuolumne " .	· ·					
" 23, " Butte "		\$100 00	\$103-09	1	2,155 62	
" 29, " Siskiyon " .			I		922/51	
" 30, " Ean Diego "					3 80	
	• •	16 00	i i	,		
Senate Contingent of 1850,	• •	10 00		500 00^1		
State Library Fund,	• • • • • • • •			000 00		
Received for Bonds issued, Act April 29, 1351,	. 11,500 (
" " " May 1, 1852, .	1,052,500 ()0				
Land Warrants issued,	(237.1.0)	00		1		<u>ن</u> ے
Treasurer's Certificates issued,	22,529 (1	Í	[CT
Treasurer's Certificates Fisued,						
Small Balances due on Warrants for which no Cer in-	-					
cates were issued,	, ,)2				
				· · · · · · · · · · · · · · · · · · ·		
	31,850,650 (00 \$19,475 00	- \$ 8,138 97	\$2,565-00	187,142 20	
	× ′ ′					
Total, \$1,570,971 17.		i i		1		

GENERAL FUND-PAYMENTS.

Per diem and mileage of Members of the Legislature, Con-	
testants, and President of the Senate,	240,844 00
Pay of Officers, Clerk, Porters, Pages and Witnesses of the	
Legislature,	106,521 00
Contingent Expenses of the Legislature, Fuel, Postage,	17 (***) 11
Furniture, &c.,	15.670 11
Public Printing,	4,144 47 224.809 63
Transportation and subsistence of Prisoners and Crminal	~~4.009 03
Prosecutions,	78.025 67
Sacramento State Hospital, support and maintenance,	46,490 90
Stockton State Hospital, support and maintenance,	37.492 64
Erection of Stockton State Hospital,	32,500000
Purchase of Sacramento State Hospital, .	25.000 00
Transportation of the Insane from Sacramento to Stockton,	1,000 00
do do do do Siskiyon county to In-	
sane Asylum,	640 00
Relief of sick in San Diego city,	2,000 00
Purchase of Site for State Prison,	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$
Pay of Census Agents,	65,172 00
Indexing and appendixing Laws and Journals, .	5,567 38
Distribution of the Laws,	1,090 00
Presidential Electors,	744 40
Messengers of Election Returns,	1,080-30
Materials &c., for crection of State Prison, paid F. Vas-	
sault,	18,315 00
State Labrary, .	500, 60
Plans and drawings prepared for the State Prison in	200.00
Mann county,	$\begin{array}{c} 300 \\ 4.116 \\ 00 \end{array}$
Relief of Elcan Heydenfeldt,	4,110 00 950 00
"W. J. Whitney,	12.531 82
" Lovett & Co.,	365 90
" Soule & Page,	1,522 38
" J. Hammond,	369 96
" W. H. Endicott,	380-00
" E. Barry,	1.500 00
\sim 0. \mathbf{H} region, \cdot .	205 00
Timkey Contracts,	39 00
" Thomas J. Cheen,	$\begin{array}{ccc} 253 & 80 \\ 125 & 00 \end{array}$
" J. K. Shaffer,	400 (0
" A. G. Kimbell,	187 00
" R. Palmer,	90 00
" W. E. P. Hartnell,	690 00
" William Rogers,	$250 \ 00$

No. 1.

Relief of James S. Raines, 100 00٤. Captain Carl, 790 00 " E. J. C. Kewen 1,150 00 " Taffe & McCahill, 🔒 2,056 00 ٢ Cooke & LeCount, 472 50 16 R. N. Wood, 100 00 ٤4 S. A. McMeans, $100 \ 00$ 11 Helen Lount, $463 \ 00$ 44 Cronin & Markley, 900 00 ٤ A. A. Brinsmade, 200 00 781 25 " Benjamin Chapman, " Taffe & McCahill, . 5.503 00 α 1.000 00J. D. Monnett, ω. Soule & Page, $534 \ 36$ " A. A. Moss, 200 00" S0 00 John Furber, ς; 104 00 P. McGill, " F. M. Hudson, 150 00 " 110 00 William Reed, £ 1 1,062 75 M. C. Dougherty, " F. J. Goforth, 122 0046 224 43 James McCranston, . :: 850 00 E. G. Baker, ι: Shirley & Bailey, 818 75 • 6 $1.000 \ 60$ Thomas Green. 66 Albert G. Hart, 596 00۲: 500 00 George Dingley, " 27,000 00 William Waldo, 4 9,500 00 Charles E. Pickett, Thomas & Morse as Attorneys for State in conducting 2,000,00suits against owners of Vessels Morse & Thomas for prosecuting delinquent tax payers in 1,500 00 San Francisco. E. Randolph for services as Attorney in the suit of Fow- • 3,000 00 ler vs. Pierce, in Supreme Court, . Isaac Thomas and P. A. Morse for legal services rendered the State in San Francisco, 3,500 00 Removal of Archives from Sacramento City to Vallejo as 1,100 00 per contract, . Whatfage and labor removing Archives from Vallejo to 130 00 San José and Sacramento. Freight on Archives from San Francisco to Sacrainento 591 00 Cuy, Fitting up rooms in Capitol at Sacramento, 517 62 Pay of Commissioners in laying off Public Grounds at

GENERAL FUND PAYMENTS-Continued.

GENERAL FUND PAYMENTS-CONTINUED.

Cooke & LeCount for engraving and preparing School		
Land Warranis,	500	00
LeCount & Strong for engraving new issue of Comptrol-	214	
ler's Warrants,	215	
R. W. Fishbourn for lithographing War Bonds,	900	ιij
E. A Theller for lithographing and printing the Chinese	150	00
translation of the Foreign Miner's Low,	150	00
Blank books, furniture and statuenery jurnis'red Clerk of	500	ഫ
the District Court, Monterey county in 1850.	703	00
Printing blank forms and bunding books by order of	506	റര
County Treasurer, San Francisco county, Stationery and printing blocks for Treasurer of San Fran-	526	00
	7 '2	50
responded to the second	10	90
•	4.343	69
cases. Costs of suit in case of State vs. Woodlief decreed against	4.040	00
the State,	620	00
Nathaniel Bennett for 150 corres Supreme Court Reports,	020	00
	2,400	66
Vol. 1, Fred. A. Snyder, amount appropriated for compilation and	2,400	00
publication of Laws,	4,000	00
Translating into Spanish the Clovernor's Message and	4,000	00
Comptoller's Report,	1,280	00
McBride & Colburn for furnishing blocks of marble for	1,200	00
Washington Monumen,	9,000	00
Wm. G. Marcy for going to Monterey after State Archives	.,	00
in 1850,	96	00
Nicholas Blair for apprehending John Thornby under		
Governor's Proclamation,	500	00
J. H. Bean for apprehending and delivery to Sheriff, of		
Edward Hines, a murcerer,	1,000	00
A. D. Patterson for amount allowed for self and posse for	,	
pursuing II. B. Heatherby, charged with murder,	1,148	00
Marshal of San Francisco for subsistence of 3 slaves in	·	
San Francisco,	450	00
J. R. Hardenburgh for traveling expenses after fugitive		
from Justice, under Executive orders,	76	00
Transmitting Census Forms,	18	00
Albert Rowe for surveying the boundary of Sacramento		
County. in 1852,	2,268	00
Compiling Census for Secretary of State per appropria-		
tion,	405	
John B. Trask appropriation for survey of the State,	2,000	
Military Fund,		60
Special Contingent Senate Fund of 1850,		00
Illegal Warrant,	812	
Salary of Governor,	14.609	
" Secretary of State,	10,732	90

GENERAL FUND PAYMENTS-CONTINUED.

i

Salary of	Comptrolle	n of State,		•	. 9.281 28
.ĩ	Treasurer		•		13,310,00
"	Attomey C		•		. 60-3 32
"		dent of Public	Instructio	on, .	7,790-00
£4		aster General,		ć	. 3,399-98
"	Surveyor (•	•	8,768 00
44		on Inspectors a	nd Commi	ssioners.	. 6,967 79
46		dent Public Bu			6,722 21
"	District At			•	. 37,561 07
"	Indres of	the Supreme C	ourt	•	33,612 45
"	Judges of	the District Co	nrt	•	. 98,416 34
44		Private Secret		•	$1.520 \ 00$
"		Secretar of St		•	3,504 93
"		Comptroller of S		•	6,324 60
"	Clerks to C	Freasuler of S	tate, .	and of Fr	
	s of War Cl		iate and D	Uaru or EA	7,649 30
			Lie Treture	•	600 00
		rintendent Pub	me i nstruc		. 6,041 80
	's Continger			•	1,322 29
incidenta	. expenses	of Governor's (· ·	. 4,457 58
	"	Secretary of			
"	"	Comptroller		Unice,	3,722 40
	"	State Treas		"	2,086 45
"		Attorney Ge	neral's	•	5,159 50
**	<i>cc</i>	Supt. Pub. I	nstruction	's "	2,124 42
"	"	Quarter Mas	ster Genera	al's Office,	922 50
"	"	Surveyor Ge		"	1,840 23
"	"	Supreme Co		•	6,163 57
"	"	Making Maj			. 2,214 00
Tempora	ry State Los	an Bonds redee	med, Prin-		
cipal,		•		\$72,200 0	0
Tempora	ry State Loa	un Bonds redeer	med, Inter-		
est,			, ,	. 68,195 8	õ
,					- 140,395 85
Treasure	r's Certificat	es redeemed,			. 20,515 92
	due Fund, (21,167 4	
	ry State Lo			. 9,900 0	
2	- ,			-,	31,067 41
					\$1.570.971 17

\$1,570,971 17

-

INTEREST FUND OF 1851-RECEIPTS.

1852. June	30.	Amount in t	fund				\$9,833 86
July			f Yuba county,	•		•	5 9,855 80 761 06
<i>o</i> aly	5,	44		h	•		
		"	Sante Cruz coun	cy,		•	52 99
	7,	"	San Francisco	count	у,		2,281 25
	7,	"	Santa Barbara			•	92 95
	22,	"	Placer		•		158 71
	23,		San Luis Obispo			•	145 88
	26,	"	Sutter	"	•		$170 \ 07$
Aug.	11,	66	Los Angeles	*4			$183 \ 84$
	24,	£	Monterey	46	•		$97 \ 49$
Oct.	4,	44	Yaba	""		• .	$60 \ 00$
	9,	"	Santa Clara	"			$390 \ 49$
	15,	"	San Trancisco	"			$143 \ 80$
	16,	66	Coluci	66			$150 \ 10$
	20,	66	Contra Costa	"			1,240 00
Nov.	1,	6.	Sutier	66		•	135 00
	18,	•6	Placer	16			367 76
Dec.	9,	"	Stori mento			-	5,979 00
	15,	"	Sar. Joaquin	6	•		3,716 04
	15,	ډ.	San Francisco	6 .		•	14,613 48
	18,	"	School Fund,				232 74
	18,	Interest Fu				-	466 47
	21,		f Contra Cúsia co	unty.	-		2,894 20
	22,	44	Monterey	46		-	2,345 41
	22,	"	Shasla	"	•		68 11
Dec.	24.	"	Placer	"		•	365 41
	28,	"	Klamath	"	-	_	259
	29,	<6	Nevada	"		-	306 62
1853, Jan.		16	Sutter	"	-		535 10
,	3,	"	El Dorndo	"		•	878 14
	4,	66	San Luis Obispo	"	•		341 26
	5,	"	Sonoma	• 6		•	873 00
	6,	"	Butte	"	•		367 94
	14,	"	Santa Barbara	4 .		•	1,314 66
	17,	"	Sonoma	4:	•		1,514 00 1,731 00
	18,	"	Marin	"		•	1,169 04
	$\frac{10}{20}$,	٤٢	Yolo	د.	•		1,105 04 138 31
	$\tilde{20},$	"	"	"		•	1,268 51
	29,	"	San Diego	"	•		150 43
Feb.	4,	"	Mariposa	"		•	491 65
100.	4,	**	Napa	"	•		682 50
	14,	"	Los Angeles	"		•	3,285 11
	14, 14, 14	"	Calaveras	"	•		16672
	16.	66	Siskiyou	"		•	297 39
March		"	Solano	"	•		
March		"	Napa	46		•	2,012 33
	5,		11 d) G	-	•		380 00

1853, Marc	h 11, Ti	reasurer	of Yuba County,			2,586	99
,	15,	"	Tuolumne	"		918	80
	22,	"	San Joaquin	"		377	83
	29,	"	Sacramento	"		$1,\!156$	90
	31,	"	Trinity	"		85	
April		46	Solano	"		1,387	53
May		• 6	San Francisco	"			11
2	20,	"	Placer	"		350	
June	1,	"	Napa			275	6 3
	9,	"	Marin	66		102	62
	10,	"	Contra Costa,	"		260	
	20,	"	Sonoma	"		385	54
	20,	"	Nevada	"	•	234	68
	21,	"	Shasta	٤.		48	
	21,	"	San Joaquin	"		167	95
	22',	"	Yuba,	"			88
	23,	46	Tuolumne	• 6	•	484	29
	ഹറ്	40	D	11		500	00

64

6.

INTEREST FUND OF 1851-RECEIPTS CONTINUED.

\$82,034 60

 $\begin{array}{c} 484 & 29 \\ 598 & 88 \end{array}$

204 34

INTEREST FUND OF 1851-PAYMENTS.

Butte Siskiyou

"

46

23, 29,

1852, July 5, Paid John Perry, Jr. for \$1,000 Seven per		
cent. Bonds, at 89 cents,	\$890	00
July 20, Paid John Perry, Jr. for \$2,500 Seven per		
cent. Bonds, at 89 cents,	2,225	00
July 20, Paid John Perry, Jr. for \$1,000 Seven per		
cent Bonds, at 99 cents,	990	00
July 20, Paid B. F. Pinkham for five coupons due		
July 1, 1852,	87	50
Oct. 14, Paid A. G. Kimball for two coupons due		
January 1, 1852,	31	50
Oct. 15, Paid Palmer, Cook & Co. for interest due in		
New York January 1, 1853,	$12,\!594$	
1853, Feb. 26, Paid for three coupons due Jan. 1, 1852,	52	
Feb. 26, Paid for six coupons due July 1, 1853,	105	50
March 1, Paid John Perry, Jr., for \$24,000 Seven per		
cent. Bonds, at 994 cents,	23,970	00
March 3, Paid Wm. M. Smith for \$500 Seven per ct.		
Bonds, at 98 cents,	490	00

INTEREST FUND OF 1851-PAYMENTS CONTINUED.

1853, March 4, Paid W. Walker for \$4,500 Seven per ct.	
Bonds, at 971 cents,	4,387 50
March 7, Paid Stephen C. Foster for \$1,000 Seven per	
cent. Boncs, at 96 cents,	960 00
April 25, Paid Palmer, Cook & Co. for interest due in	
New York, July 1. 1853,	11,715 86
Balance due,	23,535 04
	\$82,034 60

INTEREST FUND OF 1852-RECEIPTS.

1852, Jun	e 30,	Amount in	n Fund, -	-		-	\$1,000 61
July	2.	Trearurer	of Yuba County,		-		- 507 43
"	5,	"	Santa Cruz Cou	intv.		-	24 95
"	22,	٠.	Placer	""	-		- 112 48
Oct.		""	Santa Clara	"		-	260 33
"	- 16,	٤.	Colusi	"	-		- 94 06
66	20,	**	Contra Costa	46		-	826 66
Nov		66	Placer	"	-		- 245 18
Dec.	9,	66	Sacramento	•6		-	3,986 00
44	15,	66	San Joaquin	•6	-		- 2,091 49
	- 15,	4.	San Francisco	"		-	9,742 32
66	21,	٤.	Contra Costa	"	-		1,929 47
"	22,	66	Montercy	"		-	1,563 60
"	22,	"	Shasta	"	-		- 45 41
"	24,	"	Placer	"		-	$2\overline{13}$ $\overline{62}$
<i></i>	28,	"	Klainath	"	-		- 173
"	29,	"	Nevada	"		~	204 41
1853, Jan.		"	Sutter	"	-		-32719
÷ 6	3,	"	El Derado	4.		-	585 42
"	4,	"	San Luis Obispo	• 6	-		-22750
"	6,	"	Butte	"			233 68
"	11,	"	Santa Barbare	44	-		- 861 71
""	17,	"	Sonoma	"		-	1,154 00
46	18,	"	Marin	"'	-		- 779 36
""	20,	"	Yolo	"		-	845 68
"	29,	"	San Diego	"	-		- 100 28
Feb.	4.	۲۲	Mariposa	46		_	327 77
56	4,	"	Napa	"	-		- 455 00
66	14,	"	Los Angeles,	"'		-	2,067 33
"	14,	"	Calaveras	"	-		- 111 15
"	16,	"		"		-	198 26
			đ				

1852, Marc	h 4,	Treasurer	of Solano County	,	-		- 1.341-55
"	- 5,	- 6	Napa	46		-	253 33
46	11,	"	Yuba	"	-		- 1,724 67
66	15,	"	Tuolumne _	"		-	612 53
66	22,	65	San Joaquin	"	-		- 247 12
44	29,	66	Sacramento	"		-	$771 \ 26$
• •	31,	"	Trinity	"	-		- 57 06
April		• 4	Solano	"		-	925 03
May	10,	44	San Francisco	44	-		- 6,063 22
<i>د</i> : ۲	20,	6 C C C C C C C C C C C C C C C C C C C	Placer	"		-	467 02
June	1,	"	Nana	44	-		- 183 97
"	9,	.:	Marin	"			68 41
66	10,	"	Contra Costa	"	~		- 173 64
"	20,	"	Sonoma	"		-	$257 \ 03$
66	20,	"	Nevada	"	-		- 312 90
"	21,	"	Shasta	"		-	32 97
	21,	"	San Joaquin	"	-		- 111 67
"	22,	"	Yuba	"		-	40 26
"	23,	**	Tuolumne	"	~		- 322 86
"	23,	"	Butte	"		~	332 60
"	29,	44	Siskiyou	4.	-		-25386
	,	Balance]	Due, - ·	-		-	11,198 47
							\$56,904 91

INTEREST FUND OF 1852-RECEIPTS CONTINUED.

INTEREST FUND OF 1852-PAYMENTS.

1852, Oct. 15, Paid Palmer, Cooke & Co. for interest due	
January 1, 1853, in New York,	\$21,905 30
Dec. 18, Transferred to Interest Fund of 1851,	465 47
1853, April 25, Paid Palmer. Cook & Co. for interest due	
July 1, 1853, in New York,	$34,\!534$ 14
	\$ 56,904 91

STATE PRISON INTEREST FUND-RECEIPTS. .

Received from	n Treasurer o	of Placer co	unty,	\$93	40
66	•4	Nevada	"	62	58
"	-4	Siskiyou	6 L	47	05
				\$203	03
	"	"	" Nevada		" " Nevada " 62

No payments.

DOHOOD FOND (EDOBLE)	SCHOOL	FUND	RECEIPTS
----------------------	--------	------	----------

			FROM WHOM REC.	EIVED.						3 PER CENT. BONDS.	INTEREST.	CASH.
852, Jun	e 30	, Amount i	n Fund, .	·	•		•		•			\$199 8
July			of Yuba County,	•		•		•				253 - 6
"	- 22,		Placer " .				•		•			$58^{-}0$
Oct.	9,	,	Santa Clara "			•		•				$130 \ 1$
""	-16.	÷6	Colusi " .				•		•			47 0
"	-20,		Contra Costa Co	ounty,								413^{-3}
Nov			Placer	••					•	i		122^{-5}
Dec.			Sacramento	- 5				•				1,993-0
\$\$	-15,		San Joaquin	"								1,045 7.
""	15,		San Francisco	"						\$1,025 00	975 57	-2,870 6
""	- 21,		Contra Costa	"			•					$964 \ 7$
•6	22,		Monterey	""		•				1		731 8
44	- 22,	"	Shasta	"					•	1		$22^{-}7$
46	24.	<u> </u>	Placer	« 4								121 8
""	28,		Klamath	"								8
"	-29_{2}°		Nevada	"								$102 \ 2$
853, Jan			Sutter	"								163 5
" "	3,		El Dorado	44								$292 \ 7$
• 6	4,		San Luis Obispo	""						1		113 7
""	6,		Butte	"				•				116 8
"	14,		Santa Barbara	"	•							430 8
"	17,		Sonoma	"								577 0
"	18,		Marin	"								389 6
"	$\hat{20}$,		Yolo	"	-		-					422 8

10

Appendix,

1853, Jan. Feb. " " " March "	$\begin{array}{c} 4, \\ 4, \\ 14, \\ 14, \\ 16, \\ 5, \\ 11, \\ 15, \end{array}$	66 66 66 66 66 66 66 66 66	f San Diego Con Mariposa Napa Los Angeles Calaveras Siskiyou Solano Napa Yuba Tnolumne	<pre></pre>	• • •	• • •	• • •	• • •	• • •	100	00	96 20	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	No. 1.
" April May June "	22, 29, 31, 22, 10, 10, 20, 21,	66 66 66 66 66 66 66	San Joaquin Sacramento Trinity Solano San Francisco Napa Marin Contra Costa Sonoma Shasta	<pre> </pre>		•			• • • •	225 600			123 57585 6428 521,807 6191 9934 2186 81128 5116 01	25
66 66 66 66	21, 21, 22, 23, 23, 23, 29,	«« «« «« ««	San Joaquin Yuba Tuolumne Butte	66 66 66 66 7		•		•		\$1,950	00	\$1,950 45	$ \begin{array}{r} 16 & 04 \\ 55 & 98 \\ 20 & 13 \\ 161 & 43 \\ 166 & 29 \\ 9 & 30 \\ \hline \$18,451 & 14 \\ \end{array} $	

SCHOOL FUND-PAYMENTS.

1852,	Dec. 18	8, Transferred to General F " Interest F Balance due Temporary S	und of 1851,	
		Bonds, principal, interest, cash,		
				\$21,713 13
				\$22,351 59

26

		FR	OM WHOM RECEI	VED.					PER CEN BONDS.		INTEREST.	WARRATTS.	CASH.
" " Aug. " Sept. " Oct. " " Nov. "	7, 7 10, 12, 22, 4, 24, 8, 16, 17, 4, 8, 9, 18, 8, 18, 2), 10	Amount Treasure: Commissi Treasure Commissi Treasure Commissi Treasure " Commissi Treasure " Commissi Treasure "	in fund, r of San Francis Sacramento ioner of Emigrand r of Siskiyou cou	co county, s, nty, s, unty, s, county, " ts, county, s, y, ts, y,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·	•			00	\$1,821 14	\$3,251 00	$\begin{array}{c} 4.49 & 8 \\ 1.289 & 4 \\ 2,401 & 6 \\ 192 & 3 \\ 71 & 8 \\ 4,835 & 5 \\ 2.599 & 2 \\ 392 & 2 \\ 355 & 6 \\ 55 & 9 \\ 395 & 5 \\ 65 & 6 \\ 980 & 3 \\ 1,009 & 8 \\ 326 & 7 \\ 12 & 7 \\ 251 & 7 \\ 593 & 8 \\ 111 & 6 \end{array}$
"	22	4 4	Shasta	"	•	•							135 7
66	24	, <u>(</u>	Placer	"			•	1				(
"	29		Nevada	"			•	ĺ]	207 U 660 4

SACRAMENTO STATE HOSPITAL FUND RECEIPTS.

No. 1.

	FROM WHOM RECEIVED.								3 PER C BONDS	INTERE 3T.	WARRANTS.	CASH.
1553	, Jan.	3.	Treasurer of	El Dorado county,	•		•			 		419 16
	6 6	6.	••	Butte "				•	1			99 17
	"	6,	Commissioner	r of Emigrants,					1			122.55
	"			Santa Barbara county	•			•	[12 93
	"	17,		Sonoma "	· .		•					$16 \ 45$
	"	29,		San Diego "							1	68 61
	Feb.			of Emigrants,								$480 \ 70$
	61	14.	Treasurer of	Los Angeles county,								49 40
	"	14,		Calaveras "	•							860 62
	"	16,		Siskiyou "				•]		185 55
	"	28,		San Francisco city,						1		2,556 65
	March			of Emigrants,					1			983 25
	66			Yuba county, .								110 59
	66	22,		San Joaquin county,	-			•		1		$444 \ 15$
	64	29,		Sacramento "							1 [12 34
	84	31,		Trinity, "	-			•				49 35
	Apri			r of Emigrants,						ł		719 10
	May			"				•		1		1,543 70
	51			San Francisco county						 1		$69 \ 37$
	"	20,		Placer "	, -		-					462 84
	June			r of Emigrants,		•		-		1		966 96
	44 64			Nevada county,	•		•			1	1	$251\ \ 68$
	64	$\bar{21}$,		Shasta 🖙 "	•	•		-		1		$129 \ 15$
	66	21,		San Joaquin county,	-	•	•			ł		268 81

SACRAMENTO STATE HOSPITAL FUND RECEIPTS-(CONTINUED.)

Appendix,

1852, June 22, Treasurer of Yuba county, "23, "Tuolumne" "29, "Siskiyou" "Commissioner of Emigrants,	• • • • • •		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.
Total,	\$41, 875 00	\$5,475 00 \$3,764 91	\$3,251 00 \$29,384 61	

 $\frac{29}{29}$

SACRAMENTO STATE HOSPITAL FUND-PAYMENTS.

1852, July 8,	Cash paid,		-		-		-		\$1,339 32
	do	-		-		-		-	2,401 60
· 12,	Warrant or	n the	Genera	l Fur	ıd,		-		8,075 14
Aug. 17,	do	do	do	do	,	-		-	4,415 77
" 17,	Cash paid,		-		-		-		5,099 24
Sept. 10,	do	-		-		-		-	2,599 20
Oct. 11,			-		-		-		1,050 05
Nov. 8,	\mathbf{do}	-		-		-		-	1,990 16
1853, Jan. 13,	do		-		-		-		$2.971 \ 04$
March 3,	do	-		-		-		-	$5,214\ 16$
" 28,	do		-		-		-		554 74
April 21,	do	-		-		-		-	780 79
May 6.	do		-		-		-		$1.343 \ 70$
June 29,	do	-		-		-		-	$4.040 \ 61$
								Ş	41,875 52

FROM WHOM RECEIVED.		3 PER CENT. BONDS.	INTEREST.	WARRANTS	CASH.
1852, June 10. Amount in Fund,	•	\$3,000 00 2,500 00	\$1,824 14 1,953 85	\$3,251 00	<u></u> \$11 80
July 7. Treasurer of San Francisco county, 	•	2,000 00	1,000 00		644 72
" 10, Commissioner of Emigrants,	•				2,401 60
" 12. Treasurer of Siskiyou county,	•				96 19
	•				$28 \ 42$
	•	1			4,835 50
Aug. 4, Commissioner of Enugrants, . 24, Treasurer of Montercy county,	•				105 57
Sept. 8, Commissioner of Imigrants,	•				2,599-20
" 16, Treasurer of San Joaquin county,	•				196 18
	•				17 54
	•				27 97
Oct. 4, "Yuba " " 8, Commissioner of Emigrants, .	•				395 58
" 18, Treasurer of Tuolumne county,	•				490 15
	•				1,009 85
Nov. 8, Commissioner of Emigrants, " 18, Treasurer of Placer county	•				163 35
" 20. " Trinity "	•				6 36
Dec. 10, Commissioner of Emigrants,	•	1			251 75
. 15, Treasurer of San Joaquin county, .	•				296 95
" 24, " Placer "	•				227 32
" 29, " Nevada ".	•				380 22
1853, Jan. 3, "El Dorado "	•				2:4 59
1005, Jan. 5, "Butte ".	•				49 58
" 6, Commissioner of Emigrants	•	1			122 55
" 14, Treasurer of Santa Barbara county,.	•				6 46

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STOCKTON STATE HOSPITAL FUND-RECEIPTS.

		FROM	WHOM RECI	EIVED.					PER CENT. BONDS.	INT+ REST.	WARRANTS.	CASII.
1853, Jan.		Treasurer o										\$8 2
"	29,		– San Diego		6	•		•				34-31
Feb.		Commission			•							480 70
"	14,	Treasurer of	🖞 Los Angel	es cour	nty,	•		•				24 70
"	14,	"	Calaveras				•					$430\ 32$
64	16,	"	Siskiyou		"			•			1	92-78
"	27,	"	- San Franc		ty,							2,556 66
Marc	h 3.	Commission	er of Emigra	nts,	•			•				983-27
"	11,	Treasurer o	f Yuba coui	ity,	•							55 29
"	22,	""	- San Joaqu	in cou	nty,							2/2 03
66	29,	""	Sacrament		"		•					6 1
"	31,	"	Trinity		"							24 67
April	5,	Commission	er of Emigra	unts,			•					719-10
May	-5,	" "										1,343 70
"	10,	Treasurer of	f San Franci	sco co	unty,							34 6
66	20,		Placer		"							231 4:
June	1,	Commissione	er of Emigra	nts,	•		•					966-94
"		Treasurer o										125 8 -
46	21,		Shasta									61 58
"	21,		- San Toaqu	in "					1			1 30 40
"	22,		Yuba	"	•							261 63
"	23,	""	Tuolumne	"		•			1			105 51
"	29,	"	Siskiyou	"								49 00
"		Commission		ints,								1,067 00
	,			Total,	\$3	7,087	38	-	\$5 500 00	\$3,777 99	3,251 00	\$24,558 39

STOCKTON STATE HOSPITAL FUND-RECEIPTS CONTINUED.

35

A ppendix,

No. 1.

STOCKTON STATE HOSPITAL FUND-PAYMENTS.

33

1853, Aug. 11, (Cash paid,						\$5,000	00
" 21,	6						$^{"2,000}$	00
Sept. 30,	"			•		•	2,627	00
Oct. 16,	66		•		•		1,733	
Nov. 16,	66	•		•		•	1,500	00
Dec. 14,	"		•		•		421	
1853, Jan. 14,	"	•				•	1,251	21
Feb. 17,	66		•		•		1,077	
March 17,	"	•		•			3,595.	
April 16,	66		•		•		972	
May 6,	"	•		•		•	1,343	70
	rary State Principal, Interest, Warrants, Cash,	Loan	Bon	\$	5,500 3,777 3,251 3,037	00	15,566	08
							\$37,087	38

SAN FRANCISCO STATE M. HOSPITAL FUND-RECEIPTS.

1852, June 30, J	Amount in	fund,		\$14.634 75
		rom Commissioner o	f Emigrants,	7,20480
Aug. 4,	"	"	··	14,506 50
Sept. 8,	"	"	"	7,797 60
Oct. 8,	"	"	"	1,186 74
Nov. 8,	"	66	"	3,029 55
Dec. 10,	"	"	"	755 25
1853, Jan. 6,	"	"	"	3 07 65
Feb. 3,	"	"	46	1,442 10
March 3,	"	66	"	2,949 75
April 5,	"	66	"	2,157 30
May 5,	"	66	"	4.031 10
June 1,	"	"	"	2,900 88
" 29,	"	66	"	3,203 00
_				\$ 66,166 97

,

SAN FRANCISCO STATE M. HOSPITAL FUNDS-PAYMENTS.

1852, July 7, Cash	paid,	•		\$14,634 75
Sept. 21,				10,846 39
··* <u>~7</u> , ··		•		10,864 91
Oct. 23, "				8,984,34
Nov. 10, "		•		3,029 55
1853, March 5, "				5,514 75
May 5, "				6.188 40
June 1, "				2,900 88
" SO, "			•	3,203 00
				\$66,166 00

INSANE FUND-RECEIPTS.

1852.	Oct.	4.	Treasurer of	Yuba county,				\$7 50
,		- 9,		Santa Clara cou	ntv.			22 50
	"	15,	"	San Francisco				7 50
	Nov.			L rini .y	"			14 85
	Dec.			San Joaquin	"			59 40
	"	29,	"	Nevada	"			14 85
1853,	Jan.		"	B. Dorado	66			7 43
,	٤.	20,		Yolo	64			44 55
	"	20,	"	46	65			111 38
	Feb.		"	Calveras	"			90 00
	• •	10,	66	Siskiyou	"			21 28
	March		"	San Joaquin	"	-	-	89 10
	46	29,	"	Sacramento	"	•		59 40
	"	31,	C 6	5 rinity	"		•	44 55
	May		"	San Francisco	"	-		14 85
	"	20,	"	Placer	"		•	14 55
	June	10,	"	Contra Costa	"	•		$\hat{72}$ $\hat{75}$
	66	20,	"	Sonoma	66		•	7 28
	"	20,	"	Nevada	"			$22 \ 31$
	"	21,		Shasta	"		•	14 55
	"	21,		San Joaquin	"			14^{-55}
	"	22,	"	Yuba	"		•	7 28
	"	29,	~ ~	SisLiyou	"	-		14 55
		,					-	00

No payments.

FROM WHOM RECEIVED.				WABRAN	TS.	CASH	•
1852, Sept. 20, Comptroller of State, " 20, Secretary of State, Dec. 31, " " " 1853, March 11, " " " 14, " " " 15, Comptroller of State	•	•	•	\$235 205		310 2.0 180 65	0 0
				\$500	00	\$755	0

STATE LIBRARY FUND-RECEIPTS.

STATE LIBRARY FUND-PAYMENTS.

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MILITARY FUND-RECEIPTS

FROM WHOM RECLIVED.	5 PER CENT BONDS.	INTEREST.	CASH.
1852, June 30, Amount in Fund, Total, \$400 00	\$200 00	\$ 139 80	\$60 20

MILITATY FUND-PAYMENTS.

Paid by General Fund,		•	\$32 60 60 20
Balance due Temporary State Loan Bonds and interest	•	•	257 20
			\$400 00

Document No 2.

IN THE ASSEMBLY]

[SESSION OF 1854.

ANNUAL REPORT

OF THE

COMPTROLLER

OF THE

STATE OF CALIFORNIA.

GEORGE KERR, STATE PRINTER.

ANNUAL REPORT

OF THE

STATE COMPTROLLER.

COMPTROLLER'S OFFICE, Benicia, December 15, 1853.

To His Excellency, John Bigler, Governor of California,

Sir :

I herewith submit a Report on the fiscal condition of the State for the year ending June 30th, 1853, and arranged as follows :---

1st.-- A general statement of the Revenues and Expenditures.

2d.—A tabular statement showing, separately, the whole amount of each appropriation made by law, the amount paid under the same, and the balance unexpended on the 30th of June, 1853.

3d.—A tabular statement showing the amount of revenue chargeable to each county for the preceding year, the aggregate amount of each object of taxation, together with the tax on the same and assessed thereon.

4th.—A statement exhibiting the condition of the several Funds on June 30th, 1853.

5th.—An estimate of the Revenues and Expenditures for the fiscal year ending June 30th, 1854—with abstract of property thus far returned for this year.

6th.—A detailed statement of the public debt at the close of the last fiscal year, June 30th, 1853, and also statement of the same Dec. 20th, 1853.

7th.—General Remarks "upon matters decemed expedient for the support of the public credit for promoting frugality and economy in the public expenses, and for the better management and more perfect understanding of the fiscal affairs of the State." FOF RECEIPTS INTO THE STATE TREASURY DURING THE FOURTH FISCAL YEAR, ENDING JUNE 30, A.D. 1853, EXCLUSIVE OF AMOUNT RECEIVED FROM SALES OF SCHOOL LAND WARRANTS.

Property Tax of 1851.	Froperty Lax of 1852.	Property Tax of 1954	Poll lax of 1851	Poll Tax of 1852.	Poll Tax of 18c3.	Commutation Tax.	Foreign Miners' Li-	Gaming License	Merchauts' License.	Pedlers' License	Bankers' License	Billards and Tennins	Consigned Goods	Express License.	Auction Duties.	Forfeited Recogni- zances,	Commis'ns from Sec retary of State.	Fccs from Scoretary of State.	Irocceds from Sales of Water Lots.	Tax on Possessory Claume.	Warrants from mem- bers of the Legislature	Total
75 49 386 65 38 98	1,698 81 333 44 8,102 66 279 38			2 935 07 771 00 911 09 846 <u>1</u> 5			260 45 7,755 27	J,721 25	491 62 46 50											90 0 0 72 75	***	6,651 42 10,670 96 9,819 68 1,164 76
777 40	1,756 27 184 18 6 201 97 2 079 30 2 513 92		131 73	8,757 67 530 81 1,185 93 2,167 11 740 96	1		19,879 92 11 88 1,844 87	93 80	ł						2 22]	7 43	500 00	500 00 27,035 52 549 62 9 354 53 6,091 28 3,298 38
203 70 805 60 631 07	1,5% 81 61% 24 2,676 92 1 466 40	/ 938 71 (1.101 30)	186 39 S,188 18 619 55 1,764 22 9 971 47	1.212 70 3.850 70		6,570 83 12,100 15	1 '	1,137 59	7 13			00.00	25 00	100 00 70 51		;			37 16 14 55		5,821 55 15,822 98 3,326 47 26,798 95
583 50 592 77 773 18 197 58 60 00	47,116 63 300 86 682 51 7,294 52		000	157 02 97 12 1,859 72 1,093 39		00,000 **		3,345 19 123 97	69 35] 5 (1) 7 50		501 25	66 20	I	138 75	1,350 00			29,092 95	22 35 163 05 22 50	1	213,567 49 598 91 1,353 13 16,120 2, 2,083 89
129 78	14 271 80 981 57 6,816 89		41 30	120 40 569 67 636 30			922 19		14 10 35 00	9 00				1	25 85 110 00, 34 00					59 40		3,430 34 146 30 17,977 36 2,795 12 7,522 19
967 7 <i>5</i>	1,018 28 650 58 232 43	705 77		1,136 89 1,825 25 12 91	401 52		59-28 582-00	32 90 353 82 518 18	$163 09 \\ 345 13 \\ 242 99$		23 o ⁰¹			25 00	98 27 11 56		1			7 28 36 83 14 55	ļ	9,356 19 5,001 45
044 38 194 02 599 31	2,806 18 171 16 5,143 57 2,537 03		136 62	8,121 75 801 87 2,948 05 1,147 12			1,805 39 1,331 08	6,394 82 121 15	17 00		1,819 50			1	611 49		1			59 40 14 78 155 93		2,608 15 20,470 52 1,203 58 18,112 67 4,576 01
	4:129 696 91	49.015.70	<u>61 719 10</u>	\$51 EON 90	\$0 57C CO	P05 005 70	6to 101 01		A0 007 (11)	@100_00	<u></u>			(54.00.02			755 00	101/20		——'-		1,156 20

061 11 \$128,686 81 \$3,045 78 \$1,713 19 \$53,589 36 \$8,526 60 \$85,885 70 \$59,121 01 \$50,711 67 \$6,033 34 \$39 93 \$1,843 08 \$501 25 \$66 20 \$50 00 \$3,232 68 \$4550 00 \$756 00 \$101 20 \$20 092 95 \$777 96 \$500 00 \$4554 105 85

STATEMENT OF EXPENDITURES

FOR THE FOURTH FISCAL YEAR ENDING JUNE 30, 1853.

EXECUTIVE DEPARTMENT.

SALARIES.

Salary	of Governor,	\$9,999 98
"	Comptroller of State,	7,333 30
"	Treasurer "	8,250 00
"	Secretary "	8,615 99
• •	Attorney General,	6.416 65
"	Surveyor General, .	$6,875\ 00$
"	Quarter Master General,	1,893 50
"	Superintendent of Public Instruction,	4,125 00
"	" " Buildings,	4,055 53
""	State Prison Inspectors and Commissioners,	7,283 45
	Total,	\$64,848 40

CLERKS OF DEPARTMENTS.

Salary of	Clerks to	Comptroller of State,		•		•	\$7,182 43
"	"	Treasurer of State,			•		6,364 65
"	"	Secretary of State,		•		•	4,047 55
		-					
		Total,	•		•		\$17,594 63

CONTINGENT EXPENSES OF DEPARTMENT, INCLUDING FURNITURE, FUEL, LIGHTS, BOOKS, STATIONERY, &C.

Contingents of	Governor's office,	•				•	\$1,713	
"	Comptroller's "				•		3,701	
""	Treasurer's "	•				•	2,772	
44	Secretary's "				•		4,693	
"	Attorney General's	office,		•			4,159	
"	Surveyor "	٤. `					1,000	
""	Superintendent of	Public	Inst	ructio	on's of	fice,	2,123	96
	Т	'otal,					\$20,164	01

7

JUDICIAL DEPARTMENT.

SALARIES.

Salaries of Justices of "District Jud "Att		• •	•	•	\$32,361 13 64,669 00 26,934 21
	Total,	•		σ	\$ 123,964 3 4
	CONTINGE	NT3.			
Contingent Expenses of	f Supreme Court,	-		•	\$2,732 75

LEGISLATIVE DEPARTMENT.

Per diem of Senators, "Assemblymen,	•	•	•		$\$58,\!305$ 108,042	
	Total,	•	•		\$ 166,347	00
	MILEAG	E.				
Mileage of Senators, "Assemblymen,	•	•	•	đ	\$ 8,595 12,233	
	Total,	•		•	\$20,829	00
OFF	TCERS AND	CLERKS.				
Of the Senate, . " Assembly, .	•	•	•	•	\$ 54,324 51,769	
	Totai,	•	•		\$1 06,098	70
	CONTINGE	NTS.				
					A40.004	~ 4

Contingent Expenses of the Legislature, . . \$19,031 91

EXPENSE OF HOSPITALS.

Of	State Marin	e Hos	pital,	•				•		\$66,166	97
Of	Sacramento	State	Hospital,		•					61,875	
Of	Stockton	"		•		•		•		82,263	
•											
				Tot	tal,		•		•	\$210,306	42

•

EXPENDITURES, CONTINUED.

Site for State Prison, .					\$10,000 00
State Prison Building,	•	•			18,315 00
Transportation of Prisoners,	•				25,691 00
Census Agents .	•	•			66,352 00
Presidential Election Returns,	, .				1,294 80
Indigent sick at San Diego,	4	•			2,000 00
Washington Monument,					12,000 00
Map of the State, .		•			1,637 75
Relief of Immigrants, .			•		6,939 23
Witnesses before Legislature,		•			3,763 90
Suits against Vessels,-Attorn	ney's Fe	es,			8,000 00
Copying Laws in office of Sec	retary of	f Stal	te,		´158 78
Governor's Contingent Fund,			•	•	5,337 20
	Total,			•	\$161,489 66

MISCELLANEOUS EXPENSES.

Pai	H. G. Langley for copying, marginal noting laws, and for	
	appendix and index to Journals of Session of 1852, . \$4,201 7	2
"	H. G. Langley for marginal noting laws, and for appendix	
	and index to Journals of the Session of 1853, 1,826 3	8
4	H. G. Langley for making table of contents 76 0	0
41	H. G. Langley for assistance in removing Archives, 75 0	0
"	H. G. Langley for copying census returns,	0
"	Jas. Langley " " " 505 0	0
"	las. Langley for distributing and packing Journals of Ses-	
	sion of 1852, 600 0	0

MISCELLANEOUS EXPENSES-CONTINUED.

Pai	d Cook & LeCount for book binding and stationery for Trea-		
	surer of San Francisco County,	73	50
"	W. H. Ford for fees as Clerk of Court, Tuolumne County,	135	50
"	Jas. L. Trask """" Calaveras County,	126	00
"	Presley Dunlap """" " Saciamento County	80	50
"	A. C. Bradford """" " San Joaquin County	100	
"	E. D. Wheeler """" Yuba County,	86	
4.	A. D. Patterson for expenses incurred in attempting to	00	10
	arrest H. B. Beatherly,	1,148	00
"	R. Roman for traveling expenses incurred by removal of	1,140	00
		150	00
"	B. Seguin for repairing State Arms,	100	
"		200	
"	W. C. Kibbe for repairing State Arms,	432	
"			
"	w. O. Kibbe for securing	40	
"	W. O. MIDDE for carrying	201	
	Fishborne & Co. for lithographing War Bonds,	900	
"	B. F. Butler for lithographing Civil Bonds,	1,500	
"	A. C. Bradford for recording Senate Journals of 1852, .	1,650	
"	A. C. Bradford for copying same for printer,	760	00
"	Harris & Dougherty for removing Archives from Sacra-		
	mento to Vallejo,	1,100	00
"	John Walton for services as Member of Committee ap-		
	pointed to examine books of Comptroller and Treasurer		
	of State,	2,000	00
"	H. E. Robinson for services as Member of Committee		
	appointed to examine books of Comptroller and Trea-		
	surer of State,	2,000	
"	Cook & LeCount for engraving School Land Warrants,	500	
"	A. G. Kimbell for recording Assembly Journals of 1852, .	558	
"	J. J. Hand for examining Printer's Accounts,	25	
"	M. B. Lewis for transmitting Census Blanks,	18	00
"	J. B. Devoe for examining Printer's Accounts,	50	00^{-}
"	Bryant & Co. for distributing Laws of 1852,	400	-00
"	E. Randolf for services as Attorney in case, entitled Fow-		
	ler vs. Comptioller of State,	3,000	00
"	J. W. McKamey for Express charges on Census Blanks, .	12	
"	D. W. Thompson for expense of keeping Fugitive Slaves,	450	
"	John P. Buckley for materials for fitting up the Capitol		
	and State Offices at Vallejo,	141	25
"	A. A. Brinsmade, appropriation for relief of Stockton		
	Town Council,	200	00
"	Stephen Cooper for Express charges on Census Blanks,	10	
"	W. G. Marcy, expenses in going to Monterey for State	10	00
	Archives,	96	00
"	Clark & Crane for preparing plans and specifications for	50	00
	State Prison,	3 00	00
"	John Younts for postage on Census Blanks,	10	
	same reaction possible on Consider straints,	10	00

MISCELLANEOUS EXPENSES—CONTINUED.

Pai	d E. H. Thorp for costs of suits in San Francisco County,	498	50
"	J. E. Wainwright " " " "	2,636	18
"	P. Dunlap for " Socramento	714	
"	R. M. Anderson for expenses in going to El Dorado County		
	by order of Comptroller of State,	100	
"	LeCount & Strong for engraving Comptroller's Warrants,	485	00
"	J. C. Smith for costs of suit, entitled "State of California		
	vs. Woodhef et. al.,"	620	00
"	Fern & Hodges for engraving seal for Superintendent of		
	Public Instruction,	37	00
"	W. E. P. Hartnell for translating Laws of 1S52 in		
"	Spanish,	1,050	00
••	J. R. Haldenburg for traveling expense in attempting to		00
"	arrest Fugitive from Justice,	76	00
••	J. H. Dupaix for hauling State Arms from Benicia to	00	00
"	Vallejo,	60	
"	J. R. L. Smith for services as Astronomer, . W. W. O. Dwyer for """ and Draftsman.	S52	
"	W. W. O. Dwyer for """ and Draftsman, Directors of Library for purchase of books.		
٤.	N. Bennett for 150 copies Reports of Supreme Court De-	1,255	00
		2,400	00
"	Convall & Clyde for preparing abstract of Foreign	2,400	00
	Inhabitants in the State,	80	00
"	E. L. Stetson for preparing abstract of Foreign Inhabitants	00	00
	in the State,	40	00
"	Charles E. Pickett for copying Census Returns,	100	
4:	James Miller "1" " " " " "	90	
"	E. L. Stetson """ " "	60	00
44	R. Clyde " " " "	60	00
"	J. S. Dungan """""".	63	00
46	C. L Lamb for recovering papers belonging to Comptrol-		
	ler's Office,	23	00
44	Albert Rowe for surveying boundary of Sacramento		
	County,	2,268	00
"	George Fisher for translating in Spanish the Governor's		
~ •	Message and Comptroller's Report,	1,280	
Paic	I E. A. Sheller for Lithographing F. M. Licenses,	600	-
"	I I I Shijasi isi Saatasi Sunsinay	4,000	
"	John B. Trask for Geological Survey,	2,000	
"	D. D. Oolon for manaporting insance to blockton,	640	00
"	W. H. Lyons for services as member of committee to		
	examine Books of Treasurer and Comptroller of	210	00
دد	State,	516	
	M. M. Wambough, do do do, P. T. Herbert, do do do,	672	
	Γ . T. Herbert, do do do,	432	
••	G. W. Ten Broeck, services as Clerk to committee,	576	vv
	2		

Paid	J. W. Gregory, pa	v as P	residential	Elector				44 00
44	W. S. Sherwood,	,	(0	do,			•	172 00
"	Andres Pico.		do	do.		•		436 00
"	T. J. Henley,		do	do,			•	92 40
"	S. B. Wheeler, rel	ief anr		····,		•		125 00
66	Taaffe & McCahill,		do,		•		•	5,503 00
"	J. D. Monnett,	do	do.	•		•		1,000 00
"	M. C. Dougherty,	do	do.	•	•		•	1,062 75
"	F. W. Hudson,	do	do.	•		•		150 00
"	Patrick McGill,	do	do,	•	•		•	104 00
"	Wm Reed,	do	do,	•		•		104 00 110 00
"	E. G. Baker,	do	do, do,	•	•		•	850 00
"	J. Bickerstaff.	do		•		•		192 00
"		do do	do, do	•	•		•	80 00
"	John Furber,	do do	do,	•		•		500 00
	J. R. Walker,		60, do	•	•		•	200 00
"	A. A. Mass,	do	do,	•		•		596 00
	A. H. Hart,	do do	do, du	•	·		•	1.100 00
"	Thos. Green,	do do	do,	•		•		$1.100 \ 00$ 818 75
	Shirley & Bailey,		do,	•	•		•	
	E. Poppe,	do do	do,	•		•		2,112 70
"	Soule & Page,	do	do, do	•	٠		•	534 36 180 00
	B. F. Forsythe,	do	do,	•		•		224 43
"	Jas. M. Cranston,	do	do,	•	•		•	224 + 45 24 50
"	Henry Hook, Sam'l C. Grav,	do do	άu,	•		•		48 00
···		do do	áo,	•	•		•	43 00 70 00
44	Neville & Derby, J. J. Neff,	do	do, do.	•		•		50 00
	Jas. Taylor,	do do	1	•	•		•	:0 00
"	Steamer Senator,	do	do,	•		•		100 00
"		do do	do,	•	•		•	500 00
"	George Dingley,	do do	do,	•		•		50.00
"	John Tierney	do do	do,	•	•		•	25 00
·-	L. McMahon,		do,	•		•		
••	John Taylor,	do	do,	•	•		•	100 10
"	Calvin Valprey,	do J	do,	•		•		160 00
	Clark and Crane,	do	do,	•	•		•	6:20 00
"	Chas. E. Pickett,	do	do,	•		•		9,500 00
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	J. W. Goforth,	do	do,	•	•		•	180 00
•4	J. C. Cremony,	do do	do,			•		50 00
••	William Waldo,	do	do,	•	•		•	27,000 00
	Total.	•		-		•		\$107.221 92

# MISCELLANEOUS EXPENSES—CONTINUED.

#### EXPENSE OF KEEPING AND GUARDING PRISONERS, CRI-MINAL PROSECUTIONS. AND FOR ENFORCING LAW CON-CERNING FOREIGN MINERS.

Paid John C. Hayes for San Francisco	o County.	,		-	<b>\$</b> 6,062 00
" R. B. Buchanan for Yuba	do,		-		20,000 00
" Presley Dunlap for Sacramento	do,	-		-	14,000 00
" George Work for Tuolumne	do,		-		3,200 00
" James Burney for Mariposa	do,	~		-	$2.769\ 00$

Total,

\$46,031 00

#### EXPENSE OF PRINTING.

Printin	g for Legislature,	\$58,411 65
"	Laws and Journals of 1852,	29.296 17
""	Laws and Journals of 1853,	18,906 22
44	Census Returns,	33,633 50
"	Census Blanks	7,513 60
66	Laws of 1851 in Spanish,	1,719 00
"	Laws of 1852 do,	1,673 27
44	Poll Tax Receipts,	5,135 00
"	Foreign Miners' Licenses,	9,989-00
•6	Governor's Proclamations,	1,700 75
"	Circulars for Governor,	<b>60 00</b>
44	Notice of School Land Warrants, -	$369 \ 00$
""	Blank affidavits for same,	35 00
"	Notice of proposals for Fuel and Stationery for Le-	
	gislature,	508 50
"	Blanks for County Officers,	1,052 00
66	" Comptroller of State, -	<b>´</b> 290_00
4.	" Treasurer of State,	$95 \ 00$
44	" Secretary of State, -	$260 \ 00$
"'	" Attorney General,	339 38
""	" Surveyor General,	12 50
"	" Superintendent of Public Instruction,	160 00
46	Notice of removal of Seat of Government, -	$24 \ 00$
"	" proposals for building State Prison,	669 50
"	Rules for Supreme Court,	87 50
66	Revenue Law of 1852 in Spanish, -	204  98
46	Notice of proposals for State Printing, -	98 00
í t	" redemption of State Bonds, -	429 50
"	" proposals for printing Laws in Spanish,	91 50

# EXPENSE OF PRINTING-CONTINUED.

Printin	g Law concerning F. M. License and redemption of	
	Comptroller's Warrants,	295 $05$
"	Correspondence between Comptroller and Attorney	
	General, – – –	$20 \ 00$
"	Governor's Message,	247 85
"	Report of Comptroller of State,	$1,\!644$ 75
66	" Surveyor General,	824 35
"	" Superintendent of Public Instruction,	$242 \ 00$
"	" State Prison Committee, -	$715 \ 05$
"	" Sacramento Hospital, -	150 28
46	"Stockton do, – –	$746 \ 41$
"	Sundry Reports by order of Secretary of State,	7,190 36
"	Copies of Čensus Documents,	740 97
		<b>\$</b> 185,532 19
Paid for	r paper for Public Printing,	16,962-20
	Total for fourth fiscel year,	\$202,494 39

#### RECAPITULATION OF EXPENDITURES.

.

Executive Department,			-		-		-		-	\$102,607 04
Judicial do,		-		-		-		-		126,697 09
Legislative do,	~		-		-		-		-	312,301 61
Hospitals,		-		-		•		-		210,306 $42$
Site for State Prison,			-		•		-		-	$10.000 \ 00$
State Puson Building,		-		-		-		-		18,315 00
Transportation of Prison	ers,		-		-		-		-	25,691 00
Census Agents, -		-		-		-		-		66,352 00
Presidential Election Ref	uns	,	-		-		-		•	1,294 80
Indigent Sick at San Die	ego,							-		2,000000
Washington Monument,	· ·		-		-		-		-	12,000 00
Maps of the State		-		•		-		-		1,637 75
Relief of Immigrants,	-		-		-		-		-	6,939 23
Witnesses before Legisla	ture,			-		-		-		3,763-90
Suits against Vessels, At	torné	evs'	fees		1-		-		-	8,000-00
Copying Laws in Office	of Se	eciet	alV	of S	tate	,		-		158 78
Governor's Contingent H	und.	•	-		-		-		-	5,337 20
Miscellaneous Expenses,		· _				-		-		107,221 92
Keeping and Guarding P	rison	ers,	&c.		-		-		-	46,031,00
Printing,		<u> </u>		<i>.</i>		.,		-		185,532 19
Paper for State Printing,	-		-		-		•		-	16,962-20
Grand Total,	-		-		-		-		ŝ	1,269,149 13

# EXHIBIT OF RECEIPTS AND EXPENDITURES

For the Four preceding Fiscal Years.

#### CIVIL DEBT.

First Fiscal Year, Second Fiscal Year, Third Fiscal Year, Fourth Fiscal Year,	RFCEIPTS. \$3,156 27 230,796 45 366,825 07 454,185 85	EXPENDITURES. \$348,165 26 585,702 83 925,694 56 1,269,149 13
	1,154,963 64	\$3,128,711 78
Total Expenditures to June 30th, 1853, Total Receipts to June 30th, 1853, -	 	- \$3,128,711 78 1,154,963 64
Excess of Expenditures over Receipts during Four Fiscal Years, ending.		

## TABULAR STATEMENT of the amount of each appropriation of money made by law, the amount paid under the same, and the balance remaining unexpended at the close of the Fourth Fiscal Year.

II.

acts.	PROVAL	ANOUNT OF APPROPRIA- T.ON.	AMOUNT OF WARRANTS DRAWN,	BAI ANCE UNEX- PENDED.
An Act appropriating moneys to meet the contingent expenses of Government,	Jan 27 1853	600,000 00	600.000 00	
An Act providing for the crection of State Prison,	May 7 1853	153,815 00	18,315 00	135,000 00
An Act providing for the codification of the Laws of California,	i ,	4,000 00	4.000 00	
An Act to provide for Map of State of Cali- fornia, balance unexpended,	   	1,637 75	1,637 75	
An Act to provide for removal of Archives from Sacramento to Vallejo, balance unexpended,	April 30 1852	1,200 00	1,100 00	100 00
An Act making appropriation for site of State Prison,		10.000 00	10,000 00	1
An Act for Indigent Sick at San Diego,		2,000 00	2,000 00	
An Act for collection of certain Tax from Vessels, &c,	May 3 1852	10,000 00	8,000 00	2,000 00
Au Act creeting San Francisco State Ma- rine Hospital,	May 19 1853	100,000 00	66.166 97	33 833 <b>03</b>
An Act creating Insane Asylum,		50,000 00	31,251 33	15,748 67
An Act providing for the payment of the contingent expenses of the Lzecutive and Judiciary Department,		4,800 00	4,800 00	
"     A A Voss,"       "     "       "     "       "     "       "     "       "     "       "     "       "     "       "     "       "     "       "     "       "     "       James Brawley,"	April 5 1853  April 2 1855       	534 36 200 00 150 00 150 00 380 00 104 03 192 00 180 00 50 00 80 00 1,002 75	534 86 200 00 150 00 (10 00 180 00 330 60 104 00 192 00 180 00 50 00 \$9 00 1,062 75,	

		1073	DATE O	F AP-			AMOUND		
		ACT ³ .	PROV	AL.	1		WARRA		t NEX-
		•	]		TION	~	DRAW	<u> </u>	PENPED.
	C 11 -								
An Act	for the pay	ment of H Hook,	April 2			- <u>50</u>		-5C	
••		J. M. Cranston,	April 6	1858			221		
 		E S. Baker.	' 66   1. 1 <b>7</b> 86		i 850		850		
••		Shaley & Bady,		1853			818	75	
"		Thos Green,	i "		1.100		1100	-00¦	
		Ernest Poppe,			2.312		2,112	-00	
		George Dingley,		)1853			500	00	
"	"	L McMahon,			] 25	-00'	25	-00	
**	••	J Taylor,			100	-00	100	00	
"	۰.	Calvin Valprey,	May 7	1853		-00	10	0.05	
	• •	S C Gray,	May 11	1853	48	-00	48	$00^{\circ}$	
"	44	Neville & Derby,	j "		70	00	70	00	
44	44	J. J. Neff.			50	-00;	50	00	
"	"	J S Taylor,	"		30	00	30	00	
46	••	Steamer Senator.			100	00	100	00	
<b>64</b>	"	Maj Jas Birney.	May 13	1853	8 648	00	8,648		
Au Act :	for Relief o	f steamer S B Wheeler.				00	125		
·•	••	Taflee, McCahill & Co			5,503	00	5.503		
46	**	J D Mounett, M D.	Mar 25		1,000		1,000		
• 6	"	A 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Apr:11		500		500		
""	••	<b>6</b> 11 <b>1 1 1 1 1 1</b>	April 2	1853			000	· ,	
"	**	Orin Bailey,	May 7	1853	120				
"	* *	Wm Corbet,			120				
"		Arsun Miramontez,	· · ·	ļ	43			1	
· ·		Francisco Sanchez,				00			
44	4.	John Cole		(		00.		- 1	
**	٠.	Charles Ridout,		ļ	-	50,			
**	"	F. W. Sibert,	4.	i		50!			
• 4		Wm, Lampman,		1		50			
<b>6.</b>	**	Jno S. Lee,	£.			50		1	
**	" "	Thos Hayes,	"			50		i	
44	<b>6</b> •	Hury Vandewater,		ļ		00			
4.	"	Roman DeZaldo,	<i>6</i> •			00			
<i>i</i> .	6-	Thes Fitzgerald,	• • •			00			
"	• 6	Ruben Clirk and)				00		ļ	
••	i.	Wm Crune,	••		620	00,	620	00;	
"	••	Wm, Waldo,	May 13	1852	27.000	00	27.000	00	
"	"	Charles E. Pickett,	May 17		9.500				
<b>6</b> .	• 6	Jno. Brown,	may 11	1000			9,500		
<i>.</i> .	"	C. H. Veeder,	May 18	1059	1,1 0		1,150	00	
"	۰.	Jno. C Cremony,	nuy 15	1000			<b>F</b> 0	ألمم	
"	"	Stockton Town Coun-			50	-00	50	00	
cil, b	ulance,	DOORTON TOWN COUN-	June 30	1852	280	40	200	00 ⁱ	80 4
-							200	1	1 100 1
An Act	for Reliet	of Over Land Immi-		÷		!		[	
		inexpended,	"		6,939	23	<b>\6,93</b> 9	23	
5	,	• •			,	<b>~</b> !	0,000		
	to compon	site Dr. J. B. Trask for			i				
40 400									

## TABULAR STATEMENT,

Showing the amount of Revenue chargeable to each County, for the preceding year, 1852, the aggregate amount of each object of taxation, together with the tax due on same.

COUNTIES.	No of actes of Real Estate other than (17 and 'fown Lots.	Value of Real Estate.	Vutue of Improvements thereon	Value of City mid Town Lots	Value of Improvements there on-	V due of Per- v nul Property, v cept improve- ments on Read ! tube.	Total value of Property	State Tav there on at 300 cm each \$100 worth	there on.	Poll Tax for state purpres.	P. JI Tax for county purposes	) inquent Tax for previous	Tetul Tax.
1       Butte,         21       Butte,         22       tohts,         30       Contra Costa,         4       Contra Costa,         5       11         0       Narracka,         8       Mouterey,         9       Narraposa,         10       Marraposa,         10       Marraposa,         11       Napa,         12       Nevada,         13       San to quun,         14       San Diego,         15       Santa Chua,         16       San Lais Obispo,         17       San Framesco,         18       Sacramento,         19       Sonoma,         20       Sutter,         23       Sutter,         23       Silano,	250,516 244 543 1,5 7 107,490 1,524,3cc0 793,091 1,534,3cc0 793,091 319 502 2,72,205 102,777 462,763 319,502 254,343 547,457 95,032 200,021 554,457 95,032 840,573 840,573	$\begin{array}{c} 2441 242 \\ 977,822 \\ 477,977,823 \\ 477,977,824 \\ 477,977,977,977,977,977,977,977,977,977,$	\$105.223 44.292 5,673 114.220 167507 279,114 82,634 135,890 91,055 133,953 133,953 133,953 133,953 133,953 133,953 133,953 133,953 133,953 133,953 133,953 133,953 133,953 134,700 506,271 44,700 506,271 44,700 174,850 177,850 177,850 177,670 13,155	2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} (31.570)\\ (31.570)\\ (2.30,075)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ (31.302)\\ 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31 Yubá,	618,86	312,533	51,000	387,895 \$12,585,999	203,975		2 259,906 \$61,388,375	6,869 71 \$193,767 23	17,174 30 \$553,103 27	\$\$2,826,60'8	1,593 0(	568,121 17	21746 66 5872,104 49

#### IV.

# STATEMENT OF THE CONDITION OF THE SEVERAL FUNDS, JUNE 30, 1853.

The General Fund.

.

Balance in Fund, June 30th, 18 Receipts during Fiscal Year,		-	_	\$16,053 171,119	81 62
Amount expended, -	-		-	\$187,173 166,005	43 94
Balance in Fund,	-	-		\$21,167	49

#### The Interest Tax Fund of 1851.

Balance in Fund, June 30th, 1852, Receipts during Fiscal Year, -	-		<b>\$</b> 9,833 86 72,200 75
Amount expended, -		-	<b>\$</b> 82,034 61 58,499 56
Balance in Fund,	-	-	\$23,535 05

#### The Interest Fund of 1852.

Balance in Fund, June 30th, 1852, Receipts during Fiscal Year, -	-	-	-	-	<b>\$1,000 62</b> 44,705 83
Amount expended,					\$45,706 45 56,904 91
Amount overdrawn,	-		-		\$11,198 46

## The School Fund.

Balance in Fund, Receipts during F			-		\$499 21,213	
In Fund,	-	-	-	-	\$21,713	13

# Sacramento Hospital Fund.

Balance in Fund, June 30th, 1852, Receipts during Fiscal Year, -	-	-	-	-	\$8.075 13 33,810 38
Amount expended, -				-	\$41,885 51 41,885 51

# Stockton Hospital Fund.

Balance in Fund, June 30th, 1 Receipts during Fiscal Year,	852, -	-	-	-	-	\$8,075 13 29,012 25
Amount expended, -	-		-		-	$\begin{array}{r} 37,087 & 38 \\ 21,521 & 30 \end{array}$
Balance in Fund,		-		-		\$15,566 08

# San Francisco Marine Hospital Fund.

Balance in Fund, June 30 Receipts during Fiscal Y		- -	-	-	\$14,634 75 51,532 22
Amount expended, -	-	a		-	66,166 97 \$66,166 97

#### The Insane Fund.

Amount received in Fund,	-	-	-	\$776 96
Total unexpended.				0

State Prison 1	nterest Fu	nd.		
Amount received in Fund, - Total unexpended.	-	-	\$203	03
State Libra	ry Fund.			
Receipts in Fund during Fiscal Yo Amount expended,	ear, -		\$1,255 1,255	
Military	Fund.			
Balance in Fund. June 30, 1853, Amount expended, -			\$339 60	
Balance in Fund, -	-	-	\$279	30

An estimate of Receipts Expenditures for the Fifth Fiscal Year ending June 30th, 1854, with abstract of property thus far received for the present year.

#### RECEIPTS.

Proceeds of State Taxes					
cate of \$100,000,000 of as					
(rate fixed by law) amount	s to \$600:	0,000: def	duct for	delinq <mark>u</mark>	encies and cost
of collection, say \$160,000	), leaves	an estim	ated bal	ance, w	hich it is be-
lieved will be fully realized	, of	-	-	í –	\$440,000
Tax on Foreign Miners,	·	-		-	125,000
Poll Tax, -	-	-	-	-	60,000
Consigned Goods, (on sales	s of) -	-		-	50,000
Licenses, Auction Duties,	- ´	-	-	-	75,000
Passengers Tax, -	-	-		-	26,000
Fees in Secretary of State	's Office f	or Librar	y Fund,	-	2,000
Possessory Claims, -	-	-		-	2,000
Total,	-	-	-	-	\$789,000

The above is an estimate of Receipts exclusive of amounts to be realized from sales of State property.

#### ESTIMATED EXPENDITURES FIFTH FISCAL YEAR.

#### EXECUTIVE DEPARTMENT.

Salary of	Governor,	-	-		-		-	\$10.000	00
	Comptioller,	-		-		-		4,500	00
"	Treasurer,	•	-		-		-	4,500	00
٤-	Secretary of a	State,		-		-		3,500	00
66	Attorney Gen	ieral,	-		-		-	2,000	00
66	Surveyor Ger	neral,		-		-		2.000	00
"	Superintende	nt Public	Instru	ction	,		-	4,500	00
٤٢	Quartermaste	er General	,	-		-		2,000	60
"	Clerks in Sta	te Offices	,		-		-	19,444	00
44	Private Secre	tary to G	overno	r,		-		1,800	
Continger	it Expenses of	' Public (	Offices,		-		-	20,000	00
Printing f	or Public Offi	ces, -	-	-		-		5,000	00
	Total,	-	-		-		-	\$79,244	00

22

#### JUDICIAL DEPARTMENT.

Salary of 3 Justices Supreme Court,	-		-	\$28,000 00
" 11 District Judges, -		-		59,000 00
" District Attorney, San Francisco,	-		-	5,000 00
Contingent Expenses of Supreme Court,		-		2,500 00
Total,	-		-	94,50000

#### LEGISLATIVE DEPARTMENT.

Per diem of 33 Senators, session of three months, Milcage """""""	-	35,640 00 9,000 00
Per diem of 80 Assemblymen, session of three months, Mileage """"""	-	86,000 00 23,000 00
Per diem of Officers and Ulerks of the Senate, -		50,000-00
" " " Assembly, Contingent Expenses of both Houses,	-	55,000 00 20,000 00
Total,		\$278,840 00

#### MISCELLANEOUS EXPENDITURES.

State Printing, Laws and Journals of 1853,	\$29,000 00
" " Stationery for same,	5,000 00
Copying, Indexing and Marginal Noting Laws and Jour-	,
nals,	5,500 00
Recording and Copying Journals and Laws of Senate and	
Assembly,	$3,000 \ 00$
Distributing Laws and Journals,	1,000 00
Translating Laws and Governor's Message into Spanish,	2,500000
San Francisco Marine Hospital,	100,000 00
Stockton Insane Asylum, 2-5th Passenger Tax and appro-	
priations, -	90,000-00
Erection of State Prison, balance unexpended, -	135,000,00
Legislative Printing, -	50,000 00
Transportation of Prisoners to State Prison, -	25,000-00
Sacramento State Hospital,	61,866 <b>5</b> 1
Total,	\$507,866 51

## RECAPITULATION OF ESTIMATED EXPENSES.

Lxecutive Dep	artment,	•							79,244 00
Judicial	"		•				•		94 500 00
Legislative	"			•		•		•	278,840 00
Miscellaneous,	•		•		•		•		507,866 50

#### \$960,450 51

# ABSTRACT OF PROPERTY OF ALL KINDS ASSESSED, THE AMOUNT OF STATE TAX ON THE SAME, AND THE AMOUNT OF POLL TAX FOR 1853.

COUNTIES.	Namber of acres of land.	Value of same	Value of im- provements thereon		Value of im- provements thereon.		Fotal value of Property	State tax thoreon at 60 cents on \$100.	State poll tax assessed.
Alameda,	223,266% 346,211	\$1,060,362	2,337,892	\$175,520	\$11,070	\$954,993			
Butte,	210,657	<b>9</b> 03,101	33,460	4,175	26 665	502,727	2 021,112	12 144 85 8,820 79	
Contra Costa	171,548	928,752	18-4635				1,995,192		1,032 00
Culaveras,	32,767	141,750					2,129,966		2 113 50
El Dorado,	0.,101	±,	1,502,487	10.0000	335,500	2,157,882		14,051 95	13,085 50
Los Angeles,			_,,,		1	-,,	0,000,007	13001.00	10,000 00
Monte rey	746.885	536,008	79,136	45,640	159 1.5	792,586	1.607.168	9.513-00	
Mariposa	119,564	609,082	31.795		2,100			10,090 44	2,941 2
Macip		,				-,,	-,,	10,000 11	~,~.1 2
Nap ^a ,	254,213	715.587	167,185	17,270	36 190	528,736	1,537,962	9,167 41	914 5
Nevada,	,		-	-	]			, i	
Piacer,							1,196,975	3 590 82	5,171 4
in "ran 1800,							32 377,593		7,014 00
Sacramento		21,576				3,042,324			4,438 8
anta Clara,	350.934	1901 917	894,748					20,573 85	301 G
fin Joaquin,	399,072	1.101.3.34		842800	520,250	2,015 296		29.663-12	
Santa Cruz.		717.7.3.				367,665		6 513 63	1,935 0
an Luis Obi-po,	403,950	152,290	39,280	1,800	2,656		421,750	2.688 86	
Serra,	J		100.010			777,784	777 784		
liakiyou,	1.007.007	302,758	190,613 27,155		117.614	126,577	917,190		1.292 6
fente Barbaia,	1,227,807	1,132,509					1.156,654 2,880,309	6,819-02 17-271-98	450 0
Jenorua,	535,261/5	950,617	59,761	636,950		1,782,915		23,100 29	1,132 $2477$ $9$
elano,		550,011	025,701	000,000	1 21,000	1,10-,010	3,851,048	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	477.0
In Diego,	122,184	390,457	66 105	3,720	9 550	285.472	755,304	4 540 24	
Hulter	65.036	119,961	81,385	31,275		639,573		5,811 50	1,974 0
Shasta,	00,000	,	01,000	01,410	00,000		000,000	0,012 0.	1,000
Rohme,	26,501%	316,875	2,900			2,025 086	2.374.861	14.249 16	
Yanily,	160	8 700			72,480	362 135		3,159,69	2,131 2
ζοίο,	161,450	199,471	169 909			808.245		7 065 75	-,
<b>Tu</b> ba,	101,100	255,318	499,036	865,745	<b>3</b> 98,700	1,746,468	3,695,267	22,171 60	
Iamath,				,					
an Bernardino,								1	
Tenilocino,									
lumboldt,								1	
,									
	5,429,330	\$11,119,599	\$5,489,535{	\$6,083,179	-84,000,240	\$ :6,045,504	\$91,332,175	\$536,717 54	\$48,920 7

The Comptroller has estimated the taxable property of the State at one hundred million dollars. The returns already recreed warrant the belief that the grand list of assessments will not be short of that sum, when fully rendered. The total amount must, however, be far less than the actual amount of taxable property in the State. This is an increase of fifty-seven million dollars over the assessments of 1851–2, and thirtyfive million dollars over the assessments of 1852–3. Under our present revenue law, sixty cents on the one hundred dollars valuation, is assessed and collected—thirty-nine cents of interest tax and twenty one cents for the general find. It is believed that four hundred and forty thousand dollars will be collected from real and personal property, which will give two hundred and ninety-two thousand five hundred dollars to the interest funds and one hundred and forty seven thousand five hundred dollars to the General Fund.

The estimated revenue from Foreign Miners, it is confidently believed, will be fully realized, as also that to be derived from polls.

Should the decisions of our courts result in sustaining the suits directed by the State for the collection of the tax upon the sales of Consigned Goods, the estimate of renew from that source may be too low.

As will be seen, there has been a large falling off in the amount derived from Gaming Licenses, and the indications are, that this source of revenue will soon be nearly, if not wholly, cut off, such has been and must be, hereafter, the decrease of the mere business of gaming in our State.

'I'he revenue derived from the passenger tax, has also fallen off very considerably, and it is thought that the estimate of the same, for the present year, is full as large as will be realized.

It is believed that, at least, seventy five thousand dollars will be received from Auction Duties and Licenses, should the decisions of our courts sustain suits now pending for their collection.

The expenditures for the Executive and Judicial Departments have been materially lessened, also the expenditures for Hospitals.

The Comptroller has not estimated the amount which Till be required for the payment of interest on our seven per cent (Civil) Bonds, as it is impossible, at the present time, to know the amount of this class of indebtedness, so much is now being redeemed in payment for State property. It is probable also, that these redemptions may continue, and that the whole will be absorbed during the coming year.

#### VI.

#### PUBLIC DEBT.

STATEMENT—Three Per Cent Bonds issued under Act approved February 1st 1850. The amount redeemed during each Fiscal Year, with the Interest paid thereon, and amount outstanding at the close of the Fourth Fiscal Year ending June 30th, 1853.

Bonds Issued \$290,100.	Principal amount redeemed.	Interest paid on amount 10- deemed.	Total principal and interest pard in ro- demption.	Principal out- standing.	Interest due thereon.	Total principal and interest outstanding. June 30th, 1853.
First fiscal year ending June 30. 1850.		\$206 27	53,156 27	\$287,150 00		
Second fiscal year ending June 30. 1851,	122,150 00	34,419 18	156,569 18	165,000 00		
Third fiscal year ending June 30. 1852,	47.675 00	27.369 16	75,044 16	117,325 00		
Fourthfiscalyear ending June 30, 1853,	79,125 00	74,040 92	153,165 92	\$38,200 00	544,694 00	\$82.894 00
Total,	\$251,900 00	\$136,035 53	5387,935 53		ł	

Seven per cent. Civil Bonls, issued under Act of April	23th, 1851.
Amount issued up to June 30th, 1852,	\$117.000 00 19,500 00
Principal obtstanding. June 30th, 1852, Amount issued from June 30th, 1852, to June 30th, 1853,	\$397,500 00 41,500 00
Redeemed during Fourth Fiscal Year,	439,000 00 34,500 00
Principal outstanding, June 30th, 1853, . Interest due to that date,	\$404 500 00 4,433 72
Total outstanding,	\$405,933 72
Seven per cent. Civil Bonds, issued under Act of May	1st, 1852.
Amount issued to June 30th, 1852, " issued from June 30th, 1852, to June 30th, 1853,	\$156 500 00 1,052 500 00
Principal outstanding, Interest due thereon,	1,209,000 00 11,198 47
Total outstanding, June 30th, 1853, .	\$1,220,198 47

#### STATEMENT

Showing the amount of Comptroller's Warrants outstanding at the close of the Third Fiscal Year; the issue and redemption during the Fourth Fiscal Year, and the amount outstanding at the close of the year, ending June 30th, A. D., 1853.

Balance Third	outstanding at f Fiscal Year, e	the close nding Ju	of the ne 30th				
1852,	•	•	•	\$500,449	46		
Amounr Year,	issued during	r ourm	r iscai	1,269,149	13		
			•			\$1,769,598	59
	Amount brought forward,						50

Amount brought forward, REDEEMED AT TREASURY       \$162.251 18         In Cash,       \$2565 00         For Taxes,       \$2565 00         School Lands,       \$237,089 50         Funded under Act of 1851,       \$40,500 00         Funded under Act of 1852,       \$1,052,500 23	\$1,769,598 59 1,494,905 91
Total outstanding, June 30th, 1853,	\$274,692 68
An Exhibit of the entire Civil Debt of the State, at the Fiscal Year, ending June 0th, 1853.	close of the 4th
1st. Three per cent. Bonds outstanding, Interest thereon,\$38,900 44,694	
2d. Seven per cent. Bonds issued under Act         1851, payable in 1855,       \$175,500 0         Do. do. payable in 1861,       229,000 0         Interest thereon,       .	0
3d. Seven per cent. Bonds issued under Act of 1852, \$1,209,000 0 Interest thereon,	
4th. Comptroller's Warrants outstanding,	\$274,692 68
5th. Due School Fund for Interest on am't received for School Lands,\$15,205 4Amount received for Taxes,21,713 1	
6th. Due for School Lands sold,	\$330,560 00
	\$2,354,197 40
7th. Deduct balance cash in General Fload.(21.157)Amount in Interest Tax Fund of 1851,23,555 ("School Fund,.17,812 (	)4
Total of Civil Debt, June 30th, 1853,	\$2,291,682 19

#### WAR DEBT.

#### At the close of the Fourth Fiscal Year.

Twelve per cent. Bonds issued under Act of 1851, outstanding June 30, 1852,\$200,000 00Interest accrued thereon, and unpaid June 30, 1853,51,812 20		
Total Principal and Interest outstanding June 30, 1853,	\$251,812	20
Seven per cent. Bonds issued under Act of 1852, to June 30, 1852,		
Total Principal outstanding June 30, 1853, and interest due thereon Jan. 1, 1854,	\$622,280	42
Warrants outstanding at close of Third Fis- cal Year, June 30, 1852, \$140,087 93 Warrants issued during the Fourth Fiscal		
year, June 30, 1853, 314,418 56		
Warrants funded during Fourth Fiscal year, as above, 427,200 00		
Total amount of Warrants outstanding, June 30, 1853,	\$27,306	49
Total debt to June 30, 1853,	\$901,399	11

#### STATEMENT

Exhibiting the condition of the several appropriations, made for the purpose of liquidating War Claims on the 29th November, for which Seven per cent. Bonds have been issued: Also, the amount of Twelve per cent. Bonds issued to date.

Amount audited to the San	Diego	Campaign	, to	Nov.	29, 1853, \$1	7 532
Appropriation,	-	•	•		\$23,000	
					17,532	
To be audited,	•	•		•	\$5,468	

Lapotent	audited to Appropri		•	Compaign •		\$23	3. \$10,0 000 615	15
	To be at	udited,	•	•	•	\$12	,385	
Los A San-I	s andned ingeles, 3: Diego an t \$17,532 a Appropri To be at	onterey, " Siskiyon ad \$105 ano 5	Vianpo    a s. p    15,	esa, Clear 9 Warran 1	Lake, K1 t Register \$600, 591.4	amath, r,	\$619 642 28 147 \$591,495	00
Twelve "		Bonds 185 "	••	Wm $\mathbf{R}_{0}$			\$99.000 100,000 1,000	00

# EXHIBIT OF THE ENTIRE DEBT OF THE STATE TO DECEMBER 20, A. D, 1853.

_____

Three per cent. Bonds outstanding,.\$4.075 00Interest thereon,.5.501 25	
·	\$9,576 25
Seven per cent. Eonds issued under Act, 1851, principal outstanding,	384,000 00
Seven per cent. Bonds issued under Act. 1852,	1,422,000 00
State Prison Bonds issued under Act, 1853, principal out-	, ,
standing,	100,000 00
Comptroller's Warrants outstanding,	161,619 80
Total Civil indebtedness outstanding,	\$2,077,196 05
War Debt to date,	924,259 65
	\$3,001,455 70
Due School Fund for School Lands sold to date,	463,360 00
	\$3,464,815 70

The entire Civil, School and War Debt of the State, existing at the close of the Fiscal Year, June 30th, 1853, was \$3,193,081 30—and up to Dec. 20th is \$3,46481570

The debt to the School Fund (\$463,360) is, however, owned by the State, and does not constitute a real demand for which she is to provide, other than for the payment of seven per cent, interest on the amount accruing from sales of School Lands—\$9,576–25 of three per cent per month bonds remain unredeemed at this date, noth aving been presented for payment at the Treasury.

It is confidently behaved that our War Debt will be assumed by the General Government (See article on "1 dian War Claims" in a subsequent part of this report )

The State Puson Bonds will be nearly absorbed for State property by the 1st of January, 1854.

The purt proceeds of the Interest Tax of 1851 and 1852, (35 cents on the one hundre I dollars valuation of real and personal property,) is not only paying our interest on our seven per cent. Civil Bonds issued in 1851 and 1852, and payable in 1855, 1861, and 1870—but has redeemed (as will be seen by the subjoined table) \$96,000 to this date. Although the interest tax would afford a surplus, annually, in amount sufficient to to redeem these bonds at or before maturity; still it is not probable that 1 will be required for this purpose much longer, as the sales of State property, pledged to then redemption under the Act authorizing their issue will, from present indications, redeem the whole of these outstanding habilities at no very distant period. Up to date of December 29th, sales of State property in the City of San Francisco, the results of which accine to the "Sinking Funds" of 1851 and 1852, amounted to four hundred and mucty four thousand one hundred and seventy five dollars, sufficient to cancel all the seven per cent. Civil Bonds due in 1855, 1861, and a portion of those due in 1870. Other sales, it is believed, will, in the course of a few months, absorb the remainder of these obligations.

The large revenues derived from taxation, and the 25 per cent. of amounts received from sales made by the City of San Francisco, on the 26th of December, giving the State about three hundred thousand dollars in addition to the sales of State property, must, it is confidently believed, defnay current expenses hereafter.

Of Seven Per Cent Bonds issued under Act of 1851, redeemed to date.

Date	Name of Holder.	Amount S Amount redeemed E Paid.
		Dolls. Ct Ct Dolls. Ct
June 24, 1852	J. Perry, Jr,	12,500'00'84 10,500'00
66 66	B. Chapman,	500,00 90 450 00
" 25, "	H. E. Robinson,	1,000 00 85 850 00
" 28, "	C. B. Young,	$1,500\ 00\ 881\ 1,331\ 35$
" 29, "	J. Perry, Jr.,	500,00[84] 420[00
" 29, "	Same.	1.500 00 89 1,335 00
" 29, "	Moulton & Co.,	2,000'00'90   1.800'00
July 5, "	J. Perry, Jr.,	1,000,00 59 890,00
· 20, · ·	Same,	2,500 00 89 2,225 00
« «´ «	Same,	1,000'00 99 990 00
March 1, 1853	Same,	24.000 00 998 23,970 00
" 3, "	Wm. M, Smith,	500 00 98 490 00
" 4, "	W. Walker,	$4,500'00,97\frac{1}{2}$ $4,837'50$
" 7, "	Stephen C. Foster,	1.000 00 96 960 00
	Elam Brown,	1,000 00 98 980 00
··· 7, ··	Charles K. Smith,	4,000,00,934 3,750,00
" 8, "	Theo. Payne & Co.,	12,500 00 94 11,750 00
" 26, "	E M Howison,	1,000 00 98 980 00
December 24, 185	3 Tallant & Wilde,	$1,500\ 00\ 97\frac{1}{2}$ $1,462\ 50$
46 6° 44	H. W. Carpentier.	500 00 98 490 00
" " "	P. K. Hubbs,	500 00 99 7 499 38
4 <b>x</b> 46 45	Wm. M. Smith,	$5,00000 97\frac{1}{2} $ 4,875 00
" "	Jno F. Hayes,	1.500 00 99 1,485 00
(î î <b>.</b> (î	Chauncy & Moore,	5,500 00 98 5,490 00
66 6 <b>2</b> 68	John Perry, Jr.,	9,000,00 9,000 00
		96,000 00 91,360 73

# RECEIPTS INTO THE STATE TREASURY FROM JULY 1st, TO DECEMBER 31st, 1853.

From	Attorney Gener	al,		•		•			<b>\$1</b> 5,581 62
"	Alameda Count	v.							* $^{-}694$ 17
"	Calaveras do,								28,123 96
66	Contra Costa Ć								7,878 19
"	Colusi	do,							3,662 96
"	Comptroller of		-	•		•		•	268 00
66	El Dorado Cou	ntv.	•		•	-	•		41,445 80
"	Estate of W. V	V. Scot	t. de	ceaser	₹.	-		•	4,240 31
"	Humboldt Cour	tv.	,		-,		•		3,645 63
"	Los Angeles de	··//	_	•	_	•		•	17,051 07
"	Monterey do	· •	•	_	•		•		9,607 00
"	Nevada do			-		•		•	14,630 98
"	Napa do	·)	•		•		•		6,697 60
"	Placer do			•		•	_	•	13,577 05
44	Pacific Mail S.				•	_	•	_	12,500 00
"	San Francisco	County	ond	City.	_	•	_	•	166,025 84
"	San Joaquin	do,	GIIG		•		•		16,040 46
"	Sierra	do,		•		•		•	2,756 45
"	Sutter	do,	•		•		•		2,596 33
"	Santa Clara	do,		•		•		•	15,137 07
""	Sacramento	do,	•		•		•		17,244 95
"	Solano	do,		•	_	•		•	5,447 45
"	Santa Cruz	do,	•		•		•		7,288 40
"	Shasta	do,		•		•		•	8,318 46
"	Sonoma	do,	•		•		•		11,415 95
"	Siskiyou	do,		•		•		•	2,228 83
"	Secretary of S		•		•		•		1,510 20
"	Trinity County			•		•		•	5,664 13
"	Yuba do,	,	•		•		•		20,597 29
"	Tuolumne Cour			•		•		•	1,500 00
	Tuorumne Oou	·• <i>j</i> ,	•		•		•		
	т	otal,		•		•		•	<b>\$</b> 467,475 <b>1</b> 4

#### DELINQUENCIES.

The sum due the State from L. A. Besangon, and Robert Semple, surety, has not been collected. Mr. Besangon, died in the State of Louisiana some months since.

The judgment against D. J. Woodlief, has not yet been satisfied.

The suit against the absconded treasurer of Calaveras county and sureties, instituted in 1851, also remains unsatisfied.

The above suits were for defalcations occurring in 1850 and 1851, and it is not probable that the State will ever realize any thing therefrom. For particulars with regard to each of the foregoing suits and defalcations, see report of the Comptroller, dated December 1852.

The whole amount due the State by A. C. McDonald, treasurer of Sonoma county, has been paid over by his sureties, and the judgment satisfied.

On the 10th of December, 1852, the Comptroller directed a suit upon the official bond of John II. Philips, deceased, late treasurer of El Dorado county, after full trial, it has been decided against the State. On the 5th of December, 1853, a letter stating the history and progress of said suit was received at this office from the District Attorney of that county, which is now on file. In view of the facts therein disclosed, the Comptroller directed a suspension of further proceedings in said suit, unless ordered by the Legislature. The case was before the District Court at three several terms, and having been decided against the State, it was believed unneces sary and oppressive to prosecute it any furcher.

I am informed by the District Attorney of Shasta county, that the whole amount due from William Bonnifield, treasurer of that county, has been collected and paid to the present treasurer, for the State.

#### GENERAL REMARKS.

During the past year large accessions have been made to the general wealth of our State. And its resources, agricultural and commercial, especially agricultural, have been much more fully developed than in any former year. The product of gold has also increased over the preceding year, many millions.

Property has acquired a more stable and fixed value, not only in our cities and towns, but throughout the State. Although our assessments show an increase over any former year, still it is certain that the grand *list* of assessments is, in amount, far below the actual valuation of real and personal property, which should legitimately be embraced among the objects of taxation.

Could the titles to lands meet with a speedy adjudication and settlement,

much property now paying little into the State treasury, would be reached, and afford the basis of a large and constantly increasing revenue.

#### Collecting Officers.

Partly from the fact that Collecting Officers have this year been better paid than heretofore, it is expected that the revenue will not only be greatly increased over any former year, but will be much more uniformly and promptly collected and paid over. In past years the remuneration to this class of officers was so small that in the mountain regions, they were unable in many cases to pay even their ordinary current expenses, while engaged in the performance of their duties—consequently no uniformity existed in collections. The change made in this particular, in the revenue law of the last session, was salutary and has been attended with beneficial results.

#### State Credit and Increase of Revenue.

The indications of a yearly increase of revenue gives future promise of success and credit to our Finances, provided, proper, prudent and economical legislation shall hereafter diminish the heavy draughts upon the Treasury which has to this period characterised our legislation, thereby enabling the State to practice a rule equally as necessary in public as in private policy of meeting expenditures with a certain income.

The financial embarassments and debts which have been so burthensome and humiliating to other States, carrying them in some instances to the verge of repudiation, have generally been the result of using their credit for obtaining the means to carry on systems, or perfect schemes of internal improvements, and the agents who were instrumental in their creation, claimed the credit of having contemplated the construction of some great work having permanency, and from which they anticipated such income and profits, as would not only reinburse the expenditure, but eventually lighten the burthen of taxation. Our debt, however, has accumulated for ordinary expenses and temporary purposes, with few exceptions, such as for for an Insane Asylum, State Prison, &c.

As has been shown in the preceding statements, our Civil, War and School Debt amounted, in the aggregate, to \$3,193,981 31. on the 30th of June, 1853, and although a large sum to have accrued within the period of four years, still no cause of alarm exists with regard to our ability to meet it, provided it is not increased by further funding—requiring additional interest tax for its security and payment.

#### Chief causes of our indebtedness.

Notwithstanding the errors which may have occurred, as a State we are entitled to the just and charitable inferences which must be drawn from an examination of the various causes which, in the main, have created our indebtedness.

We had no territorial existence, but organized a State government with the

advent and appearance of a hundred thousand men, bringing with them little else than that contained about their persons, and coming together like a heterogeneous mass, from almost every nation or community, with no views or prejudices, or feelings in common, resembling a mighty army of wanderers more than a body of emigrants, who usually go to a new country with their families and their property, with the intention of making a permanent location and settlement, thus adding immediately to the general wealth of a state, rather than to possess themselves of its rich resources and return to their former homes.

In the anamalous condition of the country at that time our Constitution was adopted. Immediately after its adoption the first Legislature commenced its session, charged with the duty of giving form and character to the government, and adopting and applying the same to the chaotic elements surrounding them, and for which there had never been a precedent in the history of republican governments, to guide, or control their action so as to provide for the unforeseen contingencies which subsequently impaired the efficacy and value of the revenue laws, or involved a greater expenditure than any one had reason to anticipate.

With an empty treasury, they were forced to provide for the immediate demands of the government, by an issue of bonds bearing three per cent. per month, a rate of interest less than that ruling in private transactions at the time, and although they confidently supposed that their redemption was provided for by the law authorizing their issue, and that by virtue of collections to be made, they would soon be liquidated, still the result has proved that they have remained outstanding with interest fast accumulating, and not until recently has the bulk of the whole issue been taken up by cash payments from the treasury, the State having been forced to defer cash payments to other objects, until bonds bearing such a ruinous rate of interest were cancelled. Unfortunately 100, our constitution was not one which would secure an economical government, but provided for a large number of officers, and annual, instead of bi-ennial sessions of the Legislature. The prices of labor, and of every article, was, at the time, at a high standard; consequently, prices corresponding were-required for every object within the range of State necessity, so that a large outlay immediately became necessary for compensation to all persons in the service of the State for contingents, &c. Without public buildings for its General Assembly, its Officers or its Courts, large appropriations were requisite for rents.

Destitute of prisons for the security of the large number of criminals that had infested the community, they were not only pursued, brought into custody, kept and prosecuted at great expense to the State, but guarded, seoured and supported, while undergoing punishment for their crimes.

This expense has continued to the present time, and large claims are still pending for expenses incurred by ministerial and other officers, who, at an early day, in several instances, embarrassed themselves, having been compended to use their own resources to bear their expenses, and these of their attendants while engaged in enforcing the laws, which expenditure they contend has not been reimbursed.

Nor was security and protection to our citizens, who had arrived within our borders, the only object of expenditure; for in the years 1850 and 1851, the intelligence was early conveyed to the State that a large number of our countryman were on their way hither from the Atlantic States, weariedexhausted---or borne down and in a helpless condition from the fatigues of the journey and sickness when the calls for relief could not but be responded to, not only by individual philanthropy and aid, but the State itself made liberal appropriations, both years, for these objects, by sending out to meet the needy and destitute relief parties, or repaying private individuals for their advances and aid.

Arrived within our State. thousands immediately became a charge upon our charities. From exposure and depressing journeys, either by land or in crowded ships, through climates for which they were unsuited and unprepared, with the anxiety attending the enterprise in which they had embarked, and other depressing causes, many became the victims of obstinate and protracted disease. The larger proportion being destitute of friends or relatives to aid them, and without the means to secure for themselves proper care and treatment, became a public charge. For these objects the State exercised a laudable humanity, by either making those ample provisions for their relief demanded in the creation and support of hospitals, or by appropriations to be distributed among the different counties, and also to repay the expenditures incurred by individuals who had used their own funds for that purpose.

In this connection it may not be improper to remark, that the city of Sacramento has presented to past Legislatures a claim for expenditures of this character, estimated by Mayor Huchinson in his message, dated 10th January. 1853, to amount to \$150,000, exclusive of interest, for expenses actually incurred, and which, it is urged, should be borne by the State. A claim so equitable in its character, that if free from debt, and with the means of payment, it would in all probability be recognised and assumed by the State.

Our Indian wars have also involved the State in what now constitutes one-third of her outstanding indebtedness, the necessity of which, with other considerations pertaining thereto, will be treated under the head of "Indian War Claims," in a subsequent part of this report.

Destitute of money at the outset, by which to support the government, and thereby compelled to adopt a credit system, our bonds and warrants, from the high rate of interest and other causes, depreciated in value, and not until the past year or eighteen months, have they commanded in the market over fifty cents on the dollar as the average price. As a consequent a large loss has been sustained in payment for extraordinary services, for rents, contingents, &c.

The foregoing constituting some of the chief causes of our indebtedness having involved large annual expenditures, when justly considered it will be seen were almost unavoidable. They grew out of our peculiar condition at the time, a condition equally as fruitful for emergencies requiring an outlay of money or use of our credit, as unpropitious for realizing the necessary income from taxation.

Our Revenue laws, with the exception of the last, (see Article "Revenue Laws,") have fallen far short of attaining the objects sought in their enactment, and disappointed their framers. That passed by the first Legislature was wholly repealed by the sccond, and so on, each subsequent Legislature repealing the enactments of a former one, creating much confusion and embarrasment with the officers engaged in acting under them, and the public who were affected thereby. These periodical changes in our revenue system were believed necessary, for notwithstanding that each of the bodies creating them exercised their wisdom and best judgment in attempting to improve upon a former one, our population and property were so changeable and unetable in their character, and some of our objects for revenue so new and novel, that endeavors to realize therefrom were in a great measure, futile.

During the three first years of our existence as a State, the mining portions of the country paid comparatively little into the Treasury. Although assessments were made in these localities, the collecting officers were in many instances unable, a few months after, to find the parties or property assessed, so migratory and changing was the population.

Laws thought at the time of their passage to be uniform in their application, were not unfrequently s,o changing and inconstant were all the subjects to which they were applied, found either inoperative or were resisted when the officers charged with collections attempted to enforce them. Thus, in many instances the total amount realized was insufficient to pay the cost of their enforcement, and the expenses of litigation incident thereto.

The devastating conflagrations that so frequently visited our cities and towns, at an early period in our history, contributed much towards abridging our revenue.

Being compelled to draw from other states or foreign countries our staples, constituting the necessaries of life, a constant afflux of gold was required in payment. It being our only product, and no means having been devised to reach it by taxation, no tenure existing in the soil from which it was obtained, it was shipped from the country without contributing its share for the support of Government. Thus it would seem to be a matter of no surprise that our revenue, during former years, was inadequate to defray even ordinary or temporary expenses, nor that the credit of the state was of necessity called in requisition to its fullest extent for this purpose.

The whole amount collected and paid into the Treasury since the organization of the Government, up to the 30th of June last, was \$1,154,963 64.

The Comptroller has deemed it proper for a "better understanding of the fiscal affairs of the State," thus to enumerate and present in the foregoing summary, some of the causes of our present debt, resulting, as it has, from heavy draughts upon our credit and limited income, believing it equally required to secure just consideration, both at home and abroad, and for the purpose also of serving as a guide in future for attempts at retrenchment, or a change in the system from which our indebtedness has accumulated.

Our present necessities and indications of larger revenue contrast favorably with those heretofore existing.

It can hardly be expected that in our more advanced condition as a State, that unusual and uncommon expenditures will be required. The incoming immigration hereafter, probably will not need relief.

The expense of Hospitals will be abridged, permanent buildings having been provided for the Insane Asylum, and all other Hospitals, save that in the city of San Francisco, abolished. A Prison has been constructed for the security of cuiminals.

Land titles are in a fair way of settlement, so that permanent and valuable improvements will be made on our lands. Agriculture has become a leading object and business in our State, already supplying many of our wants, and enabling us to retain the money heretofore required for this supply, thus giving value to our lands and favoring an accumulation of property for taxation. Those now arriving, come with the intention of becoming permanent citizens, bringing more generally their families and their means to be added to our general wealth. Our active and extending commerce is attracting capital to our borders. From these as well as other causes, our assessments must be immeasurably increased, and a better revenue law will probably reach all and secure the income to be derived therefrom.

Our three per cent. per month bonds are substantially redeemed, and by the first of January, \$96,000 of our seven per cent. civil bonds due in 1855, will be redeemed; while the sales of property in the City of San Francisco by the State, pledged to their redemption, is already quite sufficient to cancel the rest due that year, those due in 1861—as well as a part due in 1870.

Our floating indebtedness absorbed by funding and redemption, cash payments, it is hoped, will commence. Our credit abroad has improved so that investments are made in our securities. Under these circumstances it may be assumed that the credit of the State has now reached a point as extended as demanded by her wants or necessities, and that hereafter, having now ample means of sustenance from judicious revenue laws properly enforced, appropriations should be made to come within her income derived from taxation alone, leaving the proceeds of the sales of the property of the State, to apply to the redemption of our funded debt, for the liquidation of which they have been pledged.

At the meeting of the ensuing Legislature, our financial condition will be such (having but a small amount of floating indebtedness) as will enable that body to direct its measures for greater economy in public expenses, and for securing income to meet those which may deemed indispensible. An opportunity so propitious, it is hoped, will not be passed by without securing cash payments for all the objects of expenditure. Every one is too familiar with the scrip system, either to advocate or tolerate it longer. Unavoidable as the practice of issuing scrip has been heretofore, the foregoing, it is believed, is sufficient to show, that a necessity of this sort no longer exists.

### REVENUE LAWS.

The revenue law passed the last session has, in the main, operated well, with the exception of that portion pertaining to Licenses.

Under its provision, the tax on real and personal property has been much more promptly and uniformly collected than under any previous act of the kind. Although, a few amendments might be made which would lead to improvement in some of its details; still as it has been found, as far as relates to assessments and collections on property, so much better than any previously enacted, it seems desirable that it should remain without essential change.

#### CONSIGNED GOODS.

That portion, however, relating to a tax on sales of consigned goods, should be amended with a view to securing greater efficacy. More compulsory provisions are needed to enforce it in case of resistance on the part of persons on whom the tax is levied. As it is, it lacks stringency and force in its application to those, who, by subterfuge or open resistance refuse to submit to its requirements. With a change of this character, it is thought that the State could not fail to receive from a class of persons shipping goods to this market, the share of revenue justly due.

They have, heretofore, been able to compete with, and undersell our own merchants at their own doors, the latter having been compelled to pay taxes, rends and charges, from which the shipper residing abroad has enjoyed almost entire immunity.

As the law passed at the last session levying a per centage on sales of consigned goods was resisted, Messrs. Thomas, Hoge & Wilson, and Magraw & Tilford. Attorneys, were selected on the part of the State to conduct the suits instituted to enforce its payment, and it is believed, that a tax so just, notwithstanding the defects in the law, will be secured by judicial decisions in favor of, at least, its constitutionality, if not its policy.

Should the decision of our courts be in its favor, it would be a matter of congratulation, opposed as it has been by public meetings denouncing its provisions, and other voluntary expressions, as well as written arguments and opinions against it, and resisted by a resort to the usual subterfuge, that of protracted and vexatious litigation, sustained and supported by united capital and able influences. These unworthy endeavors to wring from the State its just proportion of revenue, due from a class of property equally protected with that belonging to, held or sold in the market by our own citizens, should the decisions be now in favor of the State, will hardly be repeated.

The mere fact that that every person, after a revenue law has been passed by a body who are the rightful judges of its "uniformity," cannot think it perfectly uniform, or that some may hold abstract views against the principle of licensing by our laws, it is hoped, will not be sufficient to allow the treasury to be cheated out of this tax, and to permit a real want of uniformity in taxation to exist, as would be the case, provided the property, goods, &c. of our own citizens (who are fully identified with the State,) can be reached by every species of taxation levied by State, County or City, and from which they ask no immunity, and the goods of citizens abroad, when sold here, should be exempt therefrom.

Consignors have not only thrown large amounts of goods into our markets, to be sold from the vessels on which they were shipped, or from "hulks" in our bays, without contributing their share for the support of the government, but have, in some instances, procured at home the *printed bills*, advertising them for sale, to be used here after their arrival.

The policy of licensing the ordinary resident merchant or trader, engaged in selling goods or merchandize may be questioned, and it is contended with much force and propriety that, as the State levies a tax of 60 cents on the valuation of their goods and property, it should not impose an additional burden in the form of a license tax, leaving them as free as the farmer or mechanic to pursue their occupations without further charges. But it cannot be contended with justice, that the agent or consignee of foreign or nonresident owners should escape the same measure of taxation which is imposed by law upon our own merchant or trader.

The assessor can reach all that is owned or possessed by the resident owner; while the goods and merchandize of the non-resident owner can only be reached when they are sold, and come in competition in the market with the goods held and owned here, mingling with them and becoming subject to the operation and protection of the same laws which govern all.

In order that taxation should be uniform, and that it should be equally borne, it is but just and proper that 60 cents on the \$100 of sales of consigned goods, should be levied, thereby subjecting consignces or agents of non-resident owners to the same tax that is borne by our own traders or merchants, otherwise the one class would be benefitted at the expense of the other, and the State fail to protect her own citizens, discriminating in favor of foreign capital and enterprise.

#### BANKERS' LICENSES.

But an insignificant sum has as yet been received from licenses to bankers, brokers, and those engaged in dealing in money and printed, or written, evidences of indebtedness. Although the law designed to reach by taxation this class was drawn with much care, and at the time thought fully adequate to attain the end desired, still experience has shown that a better and more uniform system could be devised which would obviate some of the principal objections which have rendered the enforcement of the present one, if not impossible, subject to delays and embarrasment, amounting to a failure to realize anything therefrom.

The Comptroller believes that a more simple, uniform, and less objectionable system can be devised. On this point he has endeavored to avail himself of all the benefits derived from experience in endeavors to collect under the present system, or to enforce by law its provisions, and is of the opinion that a license law reaching this class, could be drawn, and should early be passed by the coming Legislature—a law which could not be successfully resisted, but would realise to the Treasury at least \$75,000 or \$100,000 a year, from the date of its enactment.

We have not been able to tax the great product of the country, either directly or indirectly, by taxing the lands, there being as yet no tenure or right existing in them. but left open to all, and it would seem but just that at least a moiety should be received into the Treasury from the millions of gold monthly produced and sent abroad. This object can in some degree be reached, by requiring those who deal and traffic in the article, or its fair equivalent, to procure a license for so doing, as the gold itself would then of course be indirectly subject to the per centage, levied in the form of a license to the persons engaged in these branches of business.

The suggestions and facts alluded to will be submitted by the Comptroller to an appropriate committee of the Legislature, if thought to merit an examination.

#### LEGISLATIVE EXPENDITURES.

The total amount of the expenditures paid at the last session, for officers, members, clerks and contingents, reached in the aggregate the sum of \$339,619 48.

The article on Legislative retrenchment, in the last annual report of the Comptroller, is as applicable now as then, and as urgently called for.

The subjoined table will exhibit the annual expenses of this body since the organization of the Government:

#### EXHIBIT

#### Of the Expenses of the Legislature, since the organization of the State Government.

#### LEGISLATURE OF 1850.

Per diem of Members and Officers,	and		
Mileage, .		\$170,749 6	50
Contingents, .		15,057 8	
Legislative Printing, .		74,114 3	7
Laws and Journals of same,	•	30,222 8	5
, ,			- \$320,144 16
Amount carried forward,	•	• •	\$320,144 16

#### Amount brought forward,

\$320,144 16

LEGISLATURE OF 1851.

Per diem of Members and O	fficers,	and				
Mileage, .	•			\$188,639	40	
Contingents,				24,285	08	
Legislative Printing,			•	70,700	66	
Laws and Journals of same,				43,358	<b>08</b>	
Printing Laws in Newspapers				48,946	01	
<b>O</b>				·		\$375,929 23

LEGISLATURE OF 1852.

Per diem of Members an	d	Officers, a	nd				
Mileage, .		•		\$301,247	<b>28</b>		
Contingents, .			•	5,532	97		
Legislative Printing,		•		43,481	<b>26</b>		
Laws and Journals,			•	28,802	45		
Furniture, &c. for same,				29,944	83		
, , ,				<u> </u>		\$409,008 8	32

LEGISLATURE OF 1853.

Per diem of Members an	nd Officer	s, and		•
Mileage, .	•	•	\$293,269 70	
Contingents, .	•		19,031 91	
Printing Laws and Journa	als, .	•	18,906 22	2
Legislative Printing,	•	•	58,411 65	
C ()/			·	- \$389,619 48
	Total,	•		, \$1.494,701 69

### HOSPITALS.

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The Insane Asylum demands the attention of the Legislature at an early day. The income from the passenger tax set apart and designed for the support of that institution, has been found almost wholly inadequate, such has been the falling off in the numbers of persons arriving by ocean emigration, from foreign countries, paying the tax. No longer able to sustain themselves from the means provided, and the State officers unable to advance from any fund for their relief, a united application was made by the officers of that institution and the Treasurer and Comptroller of State, to the Commissioners of the Funded Debt of the city of San

Francisco, who with a commendable liberality, advanced the sum required to meet the immediate and pressing wants of the Hospital This amount was advanced by them, at the low rate of 10 per cent, interest per annum, payable on payment of the demand by the Legislature. It is suggested that a Hospital tax, for the support of the insane, be levied and collected with the ordinary revenue of the State. No one in the State would be found, it is believed, to object to a tax of 5 cents on the \$100 of assessed property (real and personal) for the purpose of ameliorating the deplorable condition of a class of persons who have such claims on our charity. A State Prison tax of 4 cents on the \$100, of property is now levied and collected, and the policy of a tax, payable in cash, for the support of the Insane, is undoubtedly preferable to the practice of paying warrants to be sold at depreciated rates, for their security and support. Most of the time there are over one hundred persons in that institution, and every prompting of humanity and sympathy, require that those more fortunate should provide for their wants, by placing ample means in the hands of those who have them in charge, for the purpose of bettering their condition, if possible.

The Insane Asylum building at Stockton has been completed by the enterprizing contractor, J. M. Warner, Esq., during the past year. It is hoped that donations will hereafter aid much in the support of its unfortunate inmates.

The State Marine Hospital at San Francisco has been filled with the sick during the past summer, and the whole of the passenger tax would not be sufficient for its support.

### STATE PRISON.

Under the present system of management, this Institution has proved adequate to the wants of the State The appropriation made last year for its erection, has resulted by a creditable and judicious expenditure thereof, in providing permanent security for criminals. Should farther appropriations be required for the increasing number of its inmates, it is believed that a small per cent tax for this purpose could be as willingly borne as heretofore.

#### TRANSPORTATION OF PRISONERS.

This item of expenditure is not only constantly increasing, but the aggregate during the fiscal year, formed a heavy item in our State expenses. It is believed that it should be borne by the several counties of the State, as is the practice in most of the other States

The counties are generally rapidly reaching a healthy financial condition. Many are already free from debt, and it is suggested that they could not only pay this compensation better than the State, but could better judge of the amount necessary and proper to be paid as a fair compensation in each case, to the Sheriff or officer performing that duty. The Sheriff now receives one dollar each mile for the transportation of each prisoner. In some cases, with a single prisoner, it may not be too high a compensation; but when several are taken, a less sum would be fully adequate, and of this the counties could be the best informed as to the amount deemed necessary

### STATE PRINTING.

The expenditure for Printing the last year was much larger than estimated by the Comptroller in his last annual report. This, in a great degree, is attributable to the fact, that the session of the last Legislature continued much longer than was expected—and that the amount of printing ordered by that body was also larger than anticipated.

Could two-thirds of the amount of punting heretofore done, be avoided hereafter, and cash payments be made to parties performing that service, at fair remunerative prices, the whole limited by a special appropriation, a remedy would at once be found to the present system, which is now not only burthensome to the State but fails to pay those who do the work, when compelled to dispose of their warrants received therefor at depreciated rates.

It should be borne in mind that the bulk of the expenditure for printing is usually incurred during the session of the Legislature, and any substantial reduction in the same hereafter, must follow a reduction in the amount of printing ordered by that body, each branch of which has the right by law to incur expense for this object.

The saving and benefits which it had been supposed would result from the contract system, have not been realised, and it is believed by the Comptroller that a State Printer should be appointed, with a view of insuring that responsibility necessary, and leaving a better opportunity of defining his duties and changing compensation when advisable, than is the case under the present system.

An appropriate committee of the Legislature could readily ascertain the cost of the various kinds of printing required by law, and the rates of compensation for each, could be fixed and paid in cash instead of warrants on the treasury, to be sold in the market as has been the case heretofore, during the period when most of the printing is required, at from fifty to sixty cents on the dollar—a price which has often been inadequate to pay in cash the parties performing the service, when compelled to sell at such depreciated rates.

The Comptoller suggests that the paper used for printing be purchased ' or contracted for at the same time, and in the same manner as is now practiced by the State, in the purchase of stationery, &c., for the Legislature.

A large saving could also be made by a change in prices for appendixing and indexing the Laws and Journals.

### CLAIMS OF THE STATE ON THE GENERAL GOV-ERNMENT.

The claim of the State upon the General Government, for the "Civil Fund," so long pending before Congress, it is hoped, will speedily be obtained, and the proceeds thereof received into our Treasury. Nearly two millions of dollars was levied and collected in California, by the officers of the General Goverment, while we were under militaty rule, and it would seem that we were certainly entitled to a portion of the same, or at least, a sufficient sum to defray the expenses of our State Government from its organization, on Dec. 15th, 1849, until the date of its admission, Sept. 9th, 1850. This expense amounted to \$436.804 36, and was paid for the support of our State Government during that period. It was liquidated mainly by an issue of bonds, bearing three per cent. per month, interest, the redemption of which, with interest, has cost the State the sum of \$462,682 25, leaving outstanding, in principal and interest, \$9,576,25. This drain upon the Treasury for current expenses, while we were constructively a Territory, and like other Territories of the United States, entitled to aid and sustenance from the parent Government, should be reimbursed. This claim, then, founded as it is, in "justice and equity," ought to be pressed until recognized, and an appropriation, adequate to the demand is made by the General Government.

#### INDIAN WAR CLAIMS.

The total amount of our "War Debt" on the 30th of June, 1853. with interest to the 1st of January 1854, was \$5:01,309 11. Nearly all the claims which constituted the basis of our war debt, have been examined and allowances made thereon, by the Board of Examiners of Military Claims. These Claims were the result of the various expeditions called out by the State to defend our frontier, and protect the incoming immigration in the years 1850, 1851 and 1852.

Pressing demands were made by the citizens of the State for relief and protection. These demands were not responded to by the agents of the General Government, then in Military Command in the State, as fully as the emergency required, from the fact that their forces were inadequate, and their supplies and munitions insufficient. The State was therefore impelled to call out, arm, equip and provision forces at great expense. or suffer her unprotected citizens, and the emigration on their way hither, to fall a sacrifice to the ruthless savage

It was believed that this expense would be assumed and paid by the General Government, established as this practice had formerly been, by numerons precedents in its history. Congressional legislation in other cases of like character, has recognized and paid debts contracted in the prosecution of Indian Wars, by the States themselves, when obliged to undertake the duties of the nation in the suppression of these hostilities. The emergency which made it necessary for the State to interpose her authority, was such as rendered any delay hazardous. The distance of the authority of the General Government from the scene of operations, was so great also, as rendered any application to the Home Government for assistance, impracticable, so immunent was the danger, and so immediate were the requirements of our peoile, exposed to the depredations of the several tribes of Indians, whose hostilities required a prompt and sudden check, or, emboldened by success at the outset, no limit could be made to the sacrifice of life and property which would follow. The responsibilities thus incurred by the State, must be met by the General Government, as the State is unable, at this time, to do more than she has done by pledging her faith and credit to those who have performed services and furmished means for these objects.

This State has over eight hundred miles of frontier. The various In dian tribes that inhabit our border for that distance, early commenced depredations upon our people. Inhabiting a mountainous country, and enabled to retreat to their fastnesses after acts of violence or theft, it was impossible to pursue them with success at the time, with a small force, when single instances occurred of the kind. It therefore became necessary to adopt means ample and to raise a force sufficient to make a decided impression, and to convince them by a summary process, of our strength, and our determination that they should explate their crimes.

Had the State delayed action until the General Government could have been informed with regard to the necessity which existed at the time, the result would have been disastrous to the defenceless emigration and trontier settlements. Leaving wholly out of consideration the effect that delay would have produced upon the State, the cost to the General Government in the end would have been greater than that incurred by the State and which constitutes the claim upon which it is based.

The Indians, emboldened and rendered formidable by uninterrupted success, would have by the time the Government could have given protection, been far less readily brought into subjection, and a much larger force and greater expenditure would have been required to subdue them. It is also believed (and even admitted by Government officers then in the State,) that army soldiers could not have been retained in the service at that time, in numbers sufficient for the emergency.

'The compensation paid to soldiers by the United States, was much less for a month's service, than the price of a single days labor in the mines. Desertions therefore, would probably have left the officers without adequate force. This was foreseen, and State forces composed of effective men, it was believed indispensably necessary to accomplish the ends demanded.

The cost of supplies, transportation, &c., were procured by the State at as reasonable rates as they could have been by the General Government.

A rigid and careful scrutiny has been exercised by the Board of Examiners, (consisting of the Comptroller, Treasurer and Secretary of State,) in the auditing of War Claims, and in the allowances made therefor. Full vouchers, satisfactory proofs, and evidence of the authenticity of each was required, and in the settlements, the Board, (as required by law,) endeavored to be guided by the "Rules and Regulations of the United States Army," prescribing the mode and manner of such settlements.

Nearly all of the appropriations made for the purpose of liquidating these claims by an issue of Bonds have been exhausted, and it is also ascertained that there are few claims outstanding. The State as yet has made no provision for paying the accruing interest on this class of bonds.

It is hoped that, as the General Government was bound to protect us and was unable to do so, that the debt incurred by the State for that purpose, in the absence of such protection, will soon be assumed and paid by the United States.

#### PROVISIONS MADE BY LAW AND REVENUE FOR COMMON SCHOOLS.

Amount collected under Revenue	law of 18	352	\$22,253 93
Interest due on School Fund, (fro	om sales o	f lands,)	29,957 56
From Escheuted Estates,	-	-	1,014 79

Total on hand at date,

\$53,220 29

The laws of our State provide that the income arising from our School Fund shall be distributed pro rata to the children of the State, in organised school districts.

Already there has been received for the sale of school lands, \$463,360. This, and all amounts arising from the sale of the 500.000 acres of land donated to new States, by Act of Congress in 1841, (and by our Constitution devoted to school purposes,) is subject to an annual interest at the rate of seven per cent., collected in the ordinary manner, and with the interest tax of the State for the purpose of paying the interest on all our seven per cent. Civil Bonds. The whole amount of these lands will probably be sold, at no very distant day, giving to the School Fund a million dollars from this source, and seventy thousand dollars interest each year, to be distributed in the same manner. Add to this the proceeds of the sales of the 16th and 32d sections of all public lands within the State received by virtue of the legislation of Congress, together with escheated estates set apart by our State for the same purpose, and it will be seen that there has been already made full and permanent provisions for the education of the children of our State, provisions alike creditable and liberal.

The following statement exhibits the sales of school lands to date:

#### STATEMENT

Of the total number of School Land Warrants sold, and the proceeds thereof. up to the 30th of June, 1853, inclusive, under the act, approved May 3, 1852.

Number of Land Warrants for 160 acres,	•		. 595
·· ·· 320 · .		,	219
Total number of acres,	•		. 165,280
Amount of proceeds in cash, .		,	\$65 04
" Comptroller's Warrants,			<b>\$330,494</b> 96
Total amount of proceeds,			\$330,560 00

### STATE LIBRARY.

Although a very considerable revenue has already been provided for the purpose of procuring a State Library, it is believed that a tax should be laid on each suit appealed to the Supreme Court, to be applied to this purpose and for the purpose of obtaining a Library for that Court, in conjunction with the State Library, giving the discretion of the purchase of books to the Supreme Judges. A moderate tax would soon secure a library, alike useful and necessary.

#### APPROPRIATIONS.

The policy of adopting hereafter the practice of appropriating moneys separately and distinctly for each item of State expenditure, is again earnestly recommended, and the practice of setting apart a gross amount, to be drawn upon when the law requires, or when in the discretion of an officer it may be thought necessary, discontinued.

This change is urgently demanded, for many important reasons. Were appropriations special and limited for every object of outlay, the auditing officer would be able to better discharge his duty, and never would be permitted to exceed the amount of expenditure intended, while under the present system where certificates of other officers are not unfrequently his only guide, or his own discretion can only be exercised, he is often charged on the one hand with injustice to claimants in not recognizing their claims, and on the other, if paid, with exercising that discretion improperly.

Should the plan suggested be adopted, the amount of expenditure required could be botter known, and the amount requisite to support Govermnent, could also be approximated and provided with greater certainty. At the close of each session, no doubts would exist as to the amount of ontlay authorized for the succeding year. The immediate saving when would be the result, is readily perceived, as no one would expect more than what had been provided, and no officer would have any discretion to exercise, or certificates to guide him in making farther payments. I beg leave also to repeat in this connection, the recommendation heretofore made with regard to the repeal of all laws authorizing the receipt of any moneys, or redemptions, or any drafts from the Treasury, without the " nunted or written order or warrant" of the Comptroller, obtained after a settlement had been made, and the fact had become a matter of record, where by law all "accounts are to be kept. The laws organizing the Comptroller's and Treasurer's Office. make them distinct; and contemplate that settlement should be made by the Comptroller with any and every party with whom the State may have dealings, as well as with the Treasurer.

The Comptroller also is required to report annually and specifically, the fiscal affairs of the State to the Governor, to be submitted to the Legislature. This he cannot do if moneys are authorized to be paid "To the Treasurer," or "By the Treasurer," instead of "Into the Treasury," or "From the Treasury," as the law contemplated originally.

Inadvertently many acts appropriating monies, and providing for the manner of redemption or reception of monies, have substituted the first expressions for the latter, causing no little embarrassment on final settlement, and rendering it impossible for the accounting and collecting officer of the State, to keep such an account with the disbursing officer, and others making payment into the Treasury, or " with whom the State may have dealings," as it is by law his duty.

Confusion must be the result of these inroads upon the duties of those officers, if such irregularities in the modes of settlement and payment by the State, are persisted in much longer. The business of both of these Departments has, and will rapidly increase, and in order to an intelligent and proper understanding and condition of them, at all times hereafter, they should remain as distinct as they were made by law when organized.

#### CONCLUSION.

The Comptroller deems it his duty to call to the attention of yourself and the Legislature, the fact of the insecurity, and want of protection which now exists, for important papers, and the various kinds of blanks, or evidences of indebtedness, either wholly or partially finished which of necessity must remain for a time in the hands of the officers of the several departments either awaiting delivery or final completion. As yet, the means of security afforded, have been wholly inadequate. The result has been, that in two instances, partially prepared warrants have been purficined from his office. This could not have been avoided by all the caution and prudence he was capable of exercising, so exposed were necessarily all his papers, and so insufficient were the means of security and protection.

If proper safes or vaults had been provided, and the business apartments had been so arranged as to seperate the clerks while engaged in their vocations, from those who not unfrequently intrude upon them at times when pressed with business; such misfortunes could have been avoided. It is also suggested that stated periods should be named in the law providing for payment of officers, members, clerks, and attachees of the Legislature, and that the accounts and bills for each person should be certified by the proper officers of the body to which they are connected, and sent to the Comptoller, at least two days before time of payment. This precaution is demanded for the reason that it has not unfrequently happened, that a large number of bills requiring further authentication were presented in a single day, and the claimants, impatient and importunate, for payment at once, waiting settlement and delivery, to the great annoyance of the officers and clerks—subjecting them to hasty action and mistakes, which if more time were allowed, they would be enabled to avoid. In canceling the warrants which have been drawn and redeemed at the Treasury, it has recently been ascertained that only three warrants issued during the past two years, were erroneously issued and redeemed. One warrant drawn in favor of C. C. Hornsby, Sergeant at-Arms of the Legislature of 1852, for \$20. One in favor of H. A. DeCourcey for \$80, Clerk in the Legislature of 1852; and one in favor of Wm. Patterson for \$812 50, also issued in 1852. The Comptroller recollects the facts connected with the two first-named warrants which led to the error, occurring at the time, when from the want of sufficient clerical force in his office, and from a great press of business at the close of the Legislature, he was unable to keep up his books so as to balance all accounts. On one occasion, (the last day of the session of that Legislature) over nine hundred warrants were issued in a single day.

The warrant drawn payable to Wm. Patterson, appears to have been one that was purloined when partially finished and put into circulation. The day on which it appears to have been in process of formation in the office, was occupied in issuing warrants of the same character, and the loss of it escaped the vigilance of the Clerk. It was not registered by the Treasurei, and was inadvertently redeemed at that office.

The Comptroller and Treasurer regret even that these errors have occurred, although, taking into consideration the imperfect security afforded them, the exposed condition of the offices, and the large amount of business passing through their hands, they congratulate themselves, in view of the fact that no errors of a greater magnitude have occured. Many millions have passed through their hands, in the collections and disbursements required by law to be made. Also, in the redemptions which have been made during two years past, in the issuing of the different classes of Bonds, School Warrants, &c., and those are the only errors found in the settlement of these accounts by themselves, and the Committee of the last Legislature, appointed to examine said accounts, and vouchers of these officers. Should, however, the ensuing Legislature requine it, these officers will jointly reimburse the amount lost by the errors pointed out.

#### With respect, I have the honor to be

Your ob't serv't,

WINSLOW S. PIERCE,

Comptioller of State.

Document No. 4.

IN THE ASSEMBLY.]

[SESSION OF 1854

## OPJNION

OF THE

# ATTORNEY GENERAL

IN RELATION TO

THE LEGAL LOCATION OF SCHOOL LAND WARRANTS.

[GEORGE KERR, STATE PRINTER.

## OPINION

#### OF THE

## ATTORNEY GENERAL.

To the Hon. the Senate and Assembly of the State of California:

In accordance with your concurrent resolution of the 19th instant, directing "the Attorney General to prepare and present to the Legislature now in session, an *opinion* on the legality of the location of School Land Warrants as now practiced in this State," I beg leave to submit the following :—

1st. I do not think School Land Warrants can be legally located on public lands before they are surveyed, because the Act of Congress of September 4th, 1841, donating to each of the new States, five hundred thousand acres of land, directs that the same "may be located after it shall have been surveyed according to existing laws."

2d. After survey, there can be no doubt that School Land Warrants can be legally located on public lands, for the Act of Congress above referred to, provides that the land granted to the State may be selected in such manner as the State Legislature "shall direct;" and our Legislature has, by the Act of May 3, 1852, "directed" such lands to be located by the holders of School Land Warrants, whom, for this purpose, it has made the agents of the State.

3d. I consider that a location under our Act of May 3d upon unsurveyed land, can confer no right of possession or property in such land as against a subsequent purchaser or settler under the General (lovernment, unless it be followed up by an actual possession of the land so located, but such a naked location without possession, will be valid as against a subsequent location under the same Act, or any other State law.

4th. A School Land Warrant for one hundred and sixty acres only, cannot be located alone, but two or more warrants, each for one hundred and sixty acres, may be located at the same time, and if the whole number of acres located under the two, are in a compact body, and conform to the "sectional divisions" and "subdivisions" the location will be valid.

> J. R. McCONNELL, Attorney General.

January 26th, 1854.

Document No. 5.

IN THE ASSEVBLY.]

[SESSION OF 1854.

## GOVERNOR'S SPECIAL MESSAGE

AND

REPORT OF THE

## SUPERINTENDENT OF PUBLIC INSTRUCTION.

[GEORGE KERR, STATE PRINTER.

## GOVERNOR'S SPECIAL MESSAGE.

EXECUTIVE DEPARTMENT, ) Benicia, Jan. 31st, 1854.

To the Senate and Assembly of California:

I have the honor herewith to transmit a copy of an important report, received on the 24th inst., from the Superintendent of Public Instruction; the suggestions therein contained are worthy of immediate and careful consideration.

In this connection, I deem it a duty again to urge upon you the great importance of legislative action, in order to secure to the State all the lands donated by Congress for educational purposes.

The Act of 1852, which authorized School Land Warrants to be issued, was passed to secure the proceeds of the sales of the five hundred thousand acres for the great object designed by the framers of the Constitution—the education of the children of the State.

These lands, donated by Act of Congress, approved Sept. 4th, 1841, were originally granted for purposes of internal improvement, but were diverted by our Constitution to the support of Common Schools. As yet, but a small portion has been surveyed: and it is held by agents of the General Government, that, under the provisions of the Act of Congress, approved March 3d, 1853, School Land Warrants, issued by the State, cannot be located on unsurveyed lands. Under this construction, the State will be delayed in her selections, perhaps, for many years, and, indeed, may eventually lose the greater part of the fund.

Is the State to be deprived of this fund, at a time when a general and comprehensive system of Public Instruction is so much needed? Is the education of the children of the State, now numbering tens of thousands, to be subject to the delays and uncertainties incident to the action of the Federal Government?

These are questions of vital importance to the people of California, intimately connected, as they are, with their present interests and future welfare. I hope, therefore, that the Legislature will, at an early day, memorialize Congress to confirm, by special act, the past legislation of the State, in relation to the selection of the five hundred thousand acres of school lands, and to remove the cestrictions which, at present, retard her progress, and are inimical to her interests and the future welfare of her people.

Such a policy can work no injury or hardship to the actual settler, for the reason, that the lands selected can be disposed of by the State, under your direction, on the same terms as now exacted by the General Government, and with less actual expense to the purchaser, than under the existing laws of the United States. If the price be fixed at one dollar and twenty-five cents per acre, the school land *unsold*, including the 16th and 36th sections will yield six million eight hundred and forcy-six thousand nine hundred and fifty-five dollars, which at seven per cent. will afford an annual interest of four hundred and seventy-nine thousand two hundred and eighty six dollars and eighty-five cents; a sum quite sufficient to sustain a system of popular education superior to that of any of the older States of the Confederacy.

The plan proposed by the Superintendent would give to persons of small means, an opportunity to secure homes at a trifling amount of annual interest. until prepared, at some future day, to pay the principal.

This plan, it is believed, would favor the interests of the actual settler, and is consistent with the requirements of the Constitution; which direct that the interest, only, shall be annually applied for the benefit of Common Schools: leaving the principal intact, and a perpetual fund for their support.

Should, however, the present Legislature fail, or neglect to adopt proper measures, in reference to these lands, there is great reason to fear that the State will be deprived of the greater part of them, and the cause of education within the State, be seriously retarded. The proceeds of these lands, unless immediate action be taken to secure their selection, instead of constituting a fund for the education of the children of the State, as designed by the Constitution, will accumulate in the treasury of the nation, now full to overflowing, and be forever lost to the rising generation.

To secure the selection of these lands and preserve the educational fund, is the object of this communication, and it is hoped that it will incite you to give the subject immediate and favorable consideration.

JOHN BIGLER.

#### REPORT OF THE

## SUPERINTENDENT OF PUBLIC INSTRUCTION.

~ ~ ~ ~ ~ ~ ~ ~ ~

HIS EXCELLENCY THE GOVERNOR :---

Under article 4, section 6 of the Act in relation to Public Schools, it is made my duty to suggest to the Legislature, "Ways and Means for raising funds for the support of Common Schools," and for the promotion of the general interest of education throughout the State," I desire to do this through your Excellency the chief executive officer.

The capital of the school fund arising solely as yet from the sales of school land warrants is \$463,360.

The interest arising from the bonds of the State thus set apart, is the only revenue, as yet provided for sustaining the schools of the present year, viz: \$32,435 20, with a reasonable prospect of support from the State, the number of pupils in the schools of this year can be at least trebled from that of the report of my predecessor for the last school year—will the Legislature withhold that support? or, will the people, under the existing excitement, *expect* it?

The sales of school land warrants has almost entirely ceased. It is un necessary here to advert to the causes—the fact suffices our purpose.

There remain by consequence 268,320 acres of the 500,000 acres of school lands unsold and not yet located. This with the 16th and 36th sections, and the lands donated by Congress for a seminary of learning, "46,080 acres comprise the entire school property in lands."

Encreptic action toward an early location of the 268,320 acres, and of such of the 16th and 32d sections, as by pre-emptor settlement have become liable to "float" location; will be apparent to every one desirous of husbanding all proper resources in aid of our schools.

It is evidently the desire of Congress and of the whole people of our common country to sustain, by all proper aid, the energies of the settler, and the means of educating the rising generation—soon to succeed them in the halls of Congress, and in the varied positions peculiar to the republic. There can be no clashing of these great movements; they step in harmonious concert toward the goal of their great destiny.

So careful was the 26th Congress of the integrity of common school and seminary lands; that they provided that settlements made on the 16th sections four months prior to survey. (then necessary to pre-emption) should have the privilege to enter any other quarter section within the district " in lieu thereof"—and hkewise that any settler upon " seminary lands, having settled before selection by the State," should have the privilege to enter a quarter section " within the land district in lieu thereof." Statutes at large, vol. 5, page 382.

By subsequent action of Congress, the settler on the 16th and 36th sections, is permitted to enter at the minimum rates; to exercise in other words, the same pre-emption right as though he had been located elsewhere —and this is evidently the exercise of an equitable right.

If we were to say that the settler was compelled to pre-empt—we should utter a silly thought; no settler is compelled to pre-empt. It is a privilege that he may, or may not use. He may, or may not pre-empt the 16th and 36th sections. If he does not pre-empt, where do the lands (the 16th and 36th sections set apart for school purposes) belong? certainly no where else than to the school property! if he pre-empts in his own name, he must pay in *cash* to the General Government. If he makes his entry at the Registers, as the agent of the State, under the 500,000 acre law, he does so now after having paid \$2 in State securities for his land, and this realizes to the school fund 14 cents per acre per annum, being 7 per cent. interest of \$2 of State indebtedness, and the township, in either case, then locate their two sections elsewhere.

The interest only of the school fund can be used—hence, I suggest that the settlers on the 16th and 36th sections, who choose to decline the exercise of their pre-emption rights with the U. S. government, be permitted, with consent of the township School Commissioners, to file their bonds to the township with lien upon the lands, providing for the payment of \$1 25 per acre after — years, and paying *in advance* each year, the interest upon the same at the rate of 10 per cent. per annum to the proper officer for township school purposes.

Thus, if the whole of the school lands in each township of 36 sections be settled upon, they would produce to the township (6 miles square) the annual interest (on best security) of \$160 on \$1600 of capital.

Each township of six miles square may be expected to maintain a school, and this sum, though small, would be sensibly felt in the rural districts of the State, being applied only to cases where the town School Commissioners deem it preferable to locating elsewhere their two sections. It must be borne always in mind, that the 16th and 36th sections belong peculiarly to purposes of education, within the township, and cannot properly go to the State fund. An Act to regulate the manner of proceeding in this relation becomes imperatively necessary. It may be expected that the people of the township, immediately interested, will better than any body else, husband the small means provided, and they should be sustained by the necessary enactments of law.

Provision should be made in every township now established; and in every township of six miles square as soon as surveyed, not only for the election of School Commissioners, but also for the levying of such rates of taxation as they may deem necessary to support one or more schools, free of charge to all the children within the township. This should be made imperative : and in the event of any township failing to take such action, it should be made the duty of the County Superintendent to recommend, and the Court of Sessions, or the County Supervisors to confirm, subject to their modification, the rate of taxation for school purposes within the township so neglecting the duty.

An Act amendatory to the existing law, comprising the above named, as well as an amendment to section 4 of article 3 of the Act of 1852, providing that the school moneys shall be distributed in proportion to the average attendance, instead of the number resident, I deem of pressing importance to the success of the system. Under existing law, it is made the interest of the schools established within a district, to prevent the establishment of others, to share the funds. Some districts have large sums now lying idle, by reason of this clause in the law, whilst others, with a larger attendance of pupils, are suffering, if not discontinued, for lack of funds.

The inquiry, what shall be done in respect to the remaining 268,320 acres of the 500,000 acres. I should answer in this way. I would suggest that the Act of 1852 for the disposition of these lands be so modified as to reduce the price to \$1 25 the acre, payable within ------ years to all actual settlers; payment to be secured to the school fund; and the failure to pay 10 per cent. per annum interest, in advance, to the County Treasurer of the county wherein the land may be situated; and the forwarding of the Treasurers duplicate receipt therefor to the Comptroller of State, to be charged against him; should work a forfeiture, and subject the land to sale for the use of the school fund, to highest bidder. I would further suggest, that parties locating and not occupying, should pay \$---- the acre, in cash or State securities, or within ----- years : and that upon the payment of the interest of 10 per cent. one year in advance, or cash or State securities, they receive certificates of ownership, entitling them to register as the agents of the State, and providing therein for a forfeiture of title by non-payment of the subsequent annual interest, in advance, as before suggested.

The seminary lands awaiting only the U. S. surveys to be fully and conclusively located, I recommended to be placed, at once, under the entire title, control, and management of the Board of Regents of University, which I cannot doubt the Legislature will provide for at an early day, in "An Act to establish the California State University."

It may be expected that the regents will be selected by the Legislature from the several judicial districts, of gentlemen of distinguished ability and and integrity of character, and that their disposition of this boon from the General Government, will be worthy themselves and the great object of the paternal donation. I know of no impediment to the organization of the State University. upon such basis as to meet the peculiar merits of our State, throwing aside all distinctions of birth, or wealth, or sect, or section, giving opportunity to all to prepare themselves and their children, by the power of knowledge, for those high positions ever earned and won by industry.

This Institution should embrace, beside the collegiate departments, primary, secondary, and grammar departments, to which could be sent, at comparatively small expense, children from districts now so sparsely settled as not to be able to support a school, and also a *military department*, sustaining the montal labors by healthful and cheering exercises.

I repeat the hope of seeing, within two years, in successful organization, after proper legislative enactments, schools of learning. not only in our cities, towns and villages, but within every "six miles square" of the settled portions of the State, and that they be conducted with that ability that belongs to the energy and intelligence of this people. Not as in some States, fighting at shadows, passing the substance; not quibbling in a school house about that, that don't belong there, but educating the youth of our State; preparing them to succeed you in these halls—to equal and to excel you—to replace the ermined judges—and last, not least, to form the cohort forces of the State, in that great struggle that awaits our common country.

This great State is not the propagandist of any creed—nor the factionist of any section; to elevate the general intelligence of man, and to disseminate and extend republican influences, is her more exalted destiny.

I have the honor to remain your Excellency's obedient servant.

PAUL K. HUBBS,

Superintendent of Public Instruction.

Department of Public Instruction, Jan. 24, 1854.

Document No. 6.

[SESSION OF 1854.

## GOVERNOR'S SPECIAL MESSAGE

AND

### COMMUNICATION FROM

## S. A. M'MEANS, STATE TREASURER,

IN RELATION TO THE

## PROMPT PAYMENT OF THE INTEREST AND PRINCI-PAL OF THE CIVIL DEBT OF THE STATE.

[GEORGE KERR, STATE PRINTER.

### GOVERNOR'S SPECIAL MESSAGE

AND

### COMMUNICATION FROM HON. S. A. M'MEANS, STATE TREASURER,

EXECUTIVE DEPARTMENT, Benicia, Feb. 4, 1854.

To the Senate and Assembly :

I have the honor herewith to transmit a copy of a communication from the Hon. S. A. McMeans, State Treasurer. The suggestions it contains are cordially approved, and I trust will receive your early and favorable consideration.

JOHN BIGLER.

STATE TREASURY DEPARTMENT, ) Benicia, February 3, 1854

TO HIS EXCELLENCY GOVERNOR JOHN BIGLER :---

SIR :---The time is rapidly approaching when the Legislature should proceed to consider such revenue measures as they may deem necessary to secure the prompt payment of the interest and principal of the Civil Debt of the State.

As the late Treasurer's Annual Report only extends to the conclusion of

the fiscal year ending June 30th, 1853, and I am not aware that a supplementary report has been submitted to your Excellency; and as some important changes have taken place in the condition of the State indebtedness since that period, I desire to submit to you, a brief statement of facts which may aid the Legislature, to some extent in determining the alterations necessary to be made in the present revenue laws.

It is deemed necessary to state that the sinking fund now on hand, which has been provided by law, to liquidate the principal and interest on the three per cent. bonds, or bonds issued under the provisions of an act, entitled "An Act creating a Temporary State Loan," passed February 1st, 1850, is ample for that purpose, and therefore any further provision for these will be unnecessary. There is at present a sufficient amount in the Treasury, to meet the interest falling due in July next, on the seven per cent. civil bonds, issued under the provision of the funding act of 1851, and leave a surplus of \$39,476 22 for the redemption of the principal.

On the 9th of January, 1854, I proceeded to advertise for the redemption of \$32,000 00 of the principal of said bonds, agreeably to the provisions of an act, entitled, "An Act supplementary to an Act to fund the debt of the State," &c., approved May 4th, 1852.

The total amount of Civil Bonds issued under the provisions of the funding act of 1851, according to the records in this		
office, was,	\$458,500 98,000	
Amount now outstanding exclusive of interest,	\$360,500	00
Of this amount there will fall due on the 1st of March, 1855, Deduct from this amount, the sinking fund now on hand,	<b>\$</b> 13 <b>1</b> ,500	00
exclusive of interest,	39,476	22
Balance due 1st of March, 1853, exclusive of interest,	\$92,023	78

To meet this, we may reasonably calculate upon whatever cash may be received hereafter in payment for State property, sold under the provisions of "An Act to provide for the sale of the interest of the State of California in the property within the water line front of the City of San Francisco, &c." approved May 18th, 1853, together with the proceeds of the fifteen cents property tax provided by the present revenue law.

But it should be remembered, that while the last Legislature had but sixty-five millions of taxable property as a source of revenue, to base their calculation upon, the present will have near one hundred millions; therefore, without taking into consideration the *cash* proceeds of the sales of the State property in San Francisco, but little doubt could be entertained of our ability to pay the entire interest accruing on the seven per cent. bonds of 1851, up to January 1st, 1855, and of promptly meeting so much of the *principal* on the same as will fall due the 1st March, 1855. Hence, I infer that the assessment of fifteen cents might be reduced with safety, at least one-third; thus lessening the burden of taxation on the people. This opinion is strengthened by the fact, that \$327,000 of the bonds issued in 1851, will not fall due until the year 1861.

Presuming that a considerable amount of cash will be received on the sales of the property above mentioned, which will be turned over to the sinking fund of 1851, a reasonable calculation may be made on a speedy liquidation of the funded debt of 1851.

The seven per cent. civil bonds issued under the provision of an Act approved May 1st, 1852, and the supplementary Act, approved May 17th, 1853, constitute the only portion of our civil indebtedness which would appear to require additional provisions for its payment.

The total amount of these bonds issued,	as	appears	by	the
records of this office, is	•	11		\$1,419,000 00
Total amount redeemed to date, .				. 24,500 00
Balance outstanding, exclusive of interest	t <b>.</b> .			\$1,394,500 00

To meet the interest which will fall due the 1st of July next, on this amount, we have on hand, \$10,758 27. To this, if authorised by law, might be added the unemployed 20,000 now on hand, and set apart for the redemption of the principal of the State Prison bonds, without prejudice to their present holders, and would leave but little to do on the part of the Legislature, to enable me to make the July payment.

The necessary means for the support of Common Schools, in which all must feel a deep interest, will not of course be overlocked by the Legislature.

The interest arising from the sales which have been made of a portion of the five hundred thousand acres of school lands, donated to the State for school purposes, has proved to be inadequate to meet the public demands, now that the free school policy adopted at the last session of the Legislature, is beginning to be fully carried out. The partial experiment already made, has had the effect to reveal the fact, that California now has thousands within her limits, whose tender ages disqualify them for active participation in the affairs of Government, but to whom ere long, must be entrusted, to an important extent, the defence and preservation of her republican institutions; a reflection, which doubtless inspires every philanthropic and patriotic bosom, with a sincere desire, that they to whom this great trust is to be committed, should be fully prepared to protect it understandingly. With a due regard to the dictates of prudence and wisdom, these great ends can be accomplished, and all reasonable assurance given of the willingness and ability of the State to promptly fulfil all her pecuniary obligations,

I have the honor to be,

Your Ob't Servant,

S. A. McMEANS, State Treasurer. Document No. 7.

IN THE ASSEMBLY.]

[SESSION OF 1854.

## REPORT

OF

# SPECIAL COMMITTEE

APPOINTED 1853, TO

## **EXAMINE THE BOOKS AND PAPERS**

OF THE

STATE OFFICERS.

B. B. REDDING, STATE PRINTER.]

## **REPORT OF SPECIAL COMMITTEE.**

His Excellency JOHN BIGLER:

Esteemed Sir:

Your uniform anxiety in relation to the financial condition of the State, induces me to send you a copy of the report of the Senate Committee on Public Expenditures, acting in connection with the Committee of the Assembly, instructed to examine the accounts and vouchers of the Comptroller and Treasurer of State.

Your obedient servant,

PAUL K. HUBBS.

Benicia, October 31, 1853.

To the Hon. SAMUEL PURDY, President of the Senate.

Mr. President :

Your Committee on Public Expenditures, directed to examine the accounts of the Comptroller and Treasurer of State, having fulfilled their duties, in connection with the Committee of the Assembly, appointed for that purpose, respectfully report as follows :

The accounts of the Comptroller of State having received but limited examination from the Committee of the preceding year, your Committee have deemed it necessary to commence with the organization of the State, and have given the accounts and vouchers a more thorough examination than would have been called for, had the books of either Department, especially those of the first, second and third fiscal years, been kept with proper system. The duties of your Committee have been, so far as practicable, subdivided, and your Committee have not acted precisely as a Board, inasmuch as such action would have required much longer time without results proportionately material. The examination has been made with great care of these books of accounts for the *four fiscal years* preceding the first day of July last; as also of more than thirty thousand vouchers necessarily traced from the original transaction to final settlement. In view of greater simplicity in the accounts, and of having every account to present upon the Ledger, the actual amount due from or to the party, your Committee recommend to the Comptroller's department, an entire change in the manner of keeping the books. That all suspended accounts, such as amount of assessment charged to the Treasurer of the County upon the return of the duplicate, and others of similar character, be kept in a separate account, and especially, that the accounts of County Treasurers, and other officers, be kept in the *name* of the responsible officer. Some very able reforms in relation to these matters have recently been made by Mr. Hushton, of the Comptroller's office.

Your Committee do not think it important to notice here many small errors, further than to say, that with a different system. requiring monthly or quarterly "balance sheets," which necessarily test all the postings from the original entry, a recurrence of these errors would not be possible. The aggregate of the errors detected by your Committee, and the amount of which are sure to be repaid to the State, amount to more than ten thousand dollars during the four fiscal years, notwithstanding the very great care exercised by the ex and present Comptroller of State.

#### COUNTY OFFICERS.

In testing the settlements by county officers, your Committee regret to notice, that with few exceptions, their accounts have not been accompanied by the proper vouchers, required by law. Seldom has a County Treasurer had his accounts attested by the Auditor, nor has any check appeared, by which, in most cases, the Comptroller, nor your Committee, can know (by legal vouchers) whether the actual receipts for the State, by the County Treasurer, have been paid to the State Treasury. Conflicting statutes, with many general provisions impracticable of execution, have added much to this confusion. Considerable progress towards reformation of these evils, has been made by the present energetic Comptroller, aided by the revenue system enacted the past session; but a more rigid enforcement of the law is eminently called for.

#### CASH PAYMENTS FROM THE TREASURY.

The question as to the proper manner of making payments in "coin" from the Treasury, is, and will be, very embarrassing to the Treasurer, unless promptly defined by legislative action. As the condition of the Treasury at the opening of the session will be very similar to that of the session of 1852, your Committee report herewith an abstract from the Cash Book, showing the amount of cash received, and the manner of disposing of it, from July 1, 1851, to April 1, 1852. (See Appendix "A.") A large amount of money appears to have been withdrawn by some of the County Treasurers, in private capacity, immediately after their payments to the State motificial capacity, at a time when Warrants were readily purchased at forty to fifty cents on the dollar. From January 1 to March 1, 1852, there was paid into the Treasury in coin \$98,556 29, nearly one-half of which belonged to the "General Fund," during this time, members of the Legislature receiving \$10 per diem, and \$5, after sixty days' session, as was then supposed. Many of them were obliged to sell their warrants at forty to forty-five cents on the dollar. The whole amount for some of the members before the 2d of March of this large receipt, was \$938!

On the 8th of March, 1852, the Legislature passed an Act, requiring, substantially, that the members should each be paid \$300 in cash. A similar Act passed at the session of 1853, included the officers of the two Houses. Believing that neither *State officers*, their *employees*, nor members of the Legislature, should take a preference over other creditors of the State, your Committee recommend as a means to prevent anything of this sort in the future, that an Act be passed requiring the warrants of the Comptroller to be so drawn as to permit and direct the Treasurer of State to pay them in the order of their presentation for registry, and that when, after notice posted in the office for one month, the warrant is not produced, it be placed at the foot of the succeeding list.

### SCHOOL FUND.

The interest has not been paid in to the School Fund, as provided by the Act of 1852, for the disposal of the 500,000 acres of School Lands, although a large amount of 7 per cent. bonds have been redeemed out of monies collected as interest tax.— The School Fund is undoubtedly entitled to receive the ratio of interest tax for the funded debt of 1851 on so much of Comptroller's warrants paid in for school lands as were fundable under Act of 1851; and those received fundable under Act of 1852, and the Act of 1853, are entitled to their proportion of the interest tax receipts for that fund.

The interest to be credited to this fund to

July 1, 1852, is	-	-	-	-	-	-	\$351	<b>34</b>
January 1, 1853, is	-	-	-	-	-	-	5,062	83
July 1, 1853, is	-	-	-	-	-	-	9,791	<b>23</b>
To January 1, 1854,	will be ab	out -	-	-	-	-	14,069	60
The cash now on hand			ınder re	venue ac	t of 1852	2, is in		
3 per cent. bonds		-	-	-	-	-	3,900	45
(Since redeemed) coin		-	-	•	-	-	18,353	49
								<u> </u>
There will be to credit	t of Sch	ool Fui	nd in th	ie Treasu	ry, Janu	uary 1,		
1854, -	-	-	-	-	•	-	\$51,528	94

### THREE PER CENT BONDS.

Redeemed and cancelled after examination by committee, principal, Outstanding, subject to redemption on call, In hands of the Treasurer, never issued,	\$285,825 00 4,275 00 9,900 00
There has been paid <i>interest</i> on the above named	\$300,000 00
bonds redeemed, \$176,394 21 And will be paid on \$4,275 outstanding, about, 6,000 00	
$\frac{1}{2}$	#100 904 <b>01</b>
There remains in the office of the Treasurer \$9,000 of the bonds ready for issue. Your committee see no reason why they should not be cancelled, the Comptroller crediting the Treas- urer therewith.	\$182,394 21
Three per cents and interest unpaid,	\$10,275 00

### BONDS OF 1851.

The issue and the redemption (in part) of these bonds, as of those of 1852, has been thorougly examined by your committee, and the bonds and the warrants, redeemed, have, as examined, been cancelled. At the time of redemption they had been, by Mr. Hays, of the Treasurer's office, carefully endorsed, to prevent circulation.

There has been issued to 5th July last, of these bonds, No 1 to No. 917, at \$500 each, \$458,500 Of the bonds due in 1855, redeemed to 5th July, 72,500Outstanding July 5th, 1853, payable in 1855, \$156,500 in 1860. 229,500 \$386,000 BONDS OF 1852 PAYABLE IN 1870. Issued to October 10, 1853, of the denomination of \$1,000, No. 1 to 1,145, is - \$1,145,000 Of \$500, No. 1 to 554, 277,000 \$1,422,000 School land sales to October 10, 1853-757 warrants for 160 acres each, 121,120 a \$2, 242,240 321 warrants for 320 acres each, 102,720 a \$2, 205,540 Civil bonds for sale of school lands to be registered by Treasurer in accordance with the Act of 1852. \$447,780 STATE PRISON DEBT. Of which \$55,000 is now drawing 7 per cent. interest \$135,000 00 Civil indebtedness of the State, exclusive of outstanding Comptroller's Warrants issued and not redeemed since July 1, and exclusive of 2,390,780 00 \$4,275 principal and \$6,000 interest 3 per cent. bonds -Interest to be raised annually by taxation, \$167,354 60 Add interest on War Debt, Now 12 per cent. on \$200,000, \$24,000 Now 7 40,558 do 579,400, 64.558 00 \$231,912 60

#### WAR DEBT.

No progress has been made by the Board of Examiners towards compliance with the joint resolution of the Legislature, requiring their statement in relation to this debt; nor have your committee made such examination as these accounts should have in order to develop the extent of our claim upon the General Government.

The accounts of pay-master Foster remain unsettled. Warrant 778 for \$400, lost by John L. Smith, (to whom by order of Legislature of 1852, a duplicate was issued on filing the proper bond,) has, with the duplicate, also been redeemed. The original appears to have been redeemed on the 28th of September, 1852, the duplicate on the 7th of August, 1852; both to John Perry, Jr., broker, San Francisco.

There has	been issued o bearing 7 per	of bonds	bearing 1 the depor	2 per	cent. interes	t,	<b>\$200,000</b>	00
	No. 341,	-	-	•	-	<b>\$341.</b> 00	0	
	nomination o	f \$500,	No. 1 to	No.	369,	184,50		
do	do		No. 1 to			25,50	0	
do	do	100,	No. 1 to	No.	284,	28,40	0	
War Warr	ants issued, o	convertib	le into 7 j	per ce	nt. Bonds,	-	\$579,400 27,508	
Total amou Civil Debt	int of War ] t, -	Debt, exc -	lusive of -	accrue -	ed interest,	-	806,908 2,390,780	
Total liabi	lities of the S	State, exc	lusive of	Civil	Warrants is:	ued and		

The extraordinary total of expenditures heretofore incurred, by legislative action, must in the future be greatly reduced, or the most serious consequences will ensue. The large amount raised by taxation is unequal to the expenditures provided by law. The debt of the State is constantly increasing. The funding system, if carried any further, will not only make the evidences of indebtedness worthless, but will increace the *interest tax* beyond endurance by the people. If the present State debt were to be paid to-morrow, the continued excess of expenditures would very soon replace it in larger amount.

#### LEGISLATIVE EXPENSES.

In the auditing of these accounts the Comptroller cannot go behind the orders for payment, directed severally by the two Houses. We find these expenditures audited in accordance with the orders attested by the clerks or Sergeant-at. Arms, and approved by the presiding officer for the time.

The amount paid for officers and clerks of the Assembly of 1853, has been \$57,769 60.

This includes \$2.413 50, paid to the Sergeant-at-Arms, over and above his per diem, for arrests, mileage and subpœnas.

This custom being no longer tolerated by Congress, your committee suggest a rule, allowing beyond per diem, actual expenses only.

The amount paid for officers and clerks of the Senate for the session of 1853, has been \$54,324 00.

Total legislative expenses for officers and clerks session 1853, \$106,093 60.

### EXECUTIVE.

The salaries audited for Executive and State officers, including State Prison Inspectors and Commissioners for fourth fiscal year, \$64,848 40

Will be reduced in the present fiscal year by course of law to the extent of \$32,783 43.

There has been examined and found correctly audited for 1853, contingent expenses of the Legislature, \$19,031 91.

The salaries paid from the State Treasury to Judges for 1852-3, amount to \$123,964 34.

There has also been examined and found to have been paid in accordance with

law, for *hospital* purposes during the third fiscal year, \$90,939 75, and during the fourth, \$210,306 42-together, \$301,246 17.

Your committee have examined with great care and labor, the vouchers and accounts for

### PUBLIC PRINTING.

The expenditure for public printing prior to that incurred under the contract system of 1852, was as follows, viz:

Paid H. H. Robinson, on vouchers dated March 16th; to May 15th,	
1850, \$53,132	2 79
To J. Winchester, up to Jan 28, 1851, 117,490	
To J. B. Devoe, (mostly legislative) from Jan. 28, to May 2, 1851, 8,683	
To Evening Picayune and other newspapers for publication of Laws of	10
	10.3
	0.01
To Eugene Casserly, Laws and Journals of 1851, and legislative and	
other printing in 1852, 85,246	
10 0 00 go 1000, 10 1000,	2 00
To V. E. Geiger & Co., in 1852, 16,65	90
From March 16, 1850, to July 1, 1852, total, \$330,445	3 26
There has been paid for printing since the adoption of the contract sys-	
•	
There has been paid for printing since the adoption of the contract sys-	
There has been paid for printing since the adoption of the contract sys- tem, from July 1, 1852, to July 1, 1853, including the Laws and	
There has been paid for printing since the adoption of the contract sys- tem, from July 1, 1852, to July 1, 1853, including the Laws and Journals of both years, viz: Legislative, \$58,411 65	
There has been paid for printing since the adoption of the contract sys- tem, from July 1, 1852, to July 1, 1853, including the Laws and Journals of both years, viz: Legislative, Census blanks and returns, 41,147 00	
There has been paid for printing since the adoption of the contract sys- tem, from July 1, 1852, to July 1, 1853, including the Laws and Journals of both years, viz: Legislative, \$58,411 65 Census blanks and returns, 41,147 00 Paper, 16,962 20	, -
There has been paid for printing since the adoption of the contract sys- tem, from July 1, 1852, to July 1, 1853, including the Laws and Journals of both years, viz: Legislative, \$58,411 65 Census blanks and returns, 41,147 00 Paper, 16,962 20 Laws and Journals, 1852, 29,296 17	, -
There has been paid for printing since the adoption of the contract system, from July 1, 1852, to July 1, 1853, including the Laws and Journals of both years, viz:Legislative,\$58,411Census blanks and returns,41,147Paper,16,962Laws and Journals, 1852,29,296Ditto of 1853, (in part)18,906	, - ,
There has been paid for printing since the adoption of the contract sys- tem, from July 1, 1852, to July 1, 1853, including the Laws and Journals of both years, viz: Legislative, \$58,411 65 Census blanks and returns, - 41,147 00 Paper, - 16,962 20 Laws and Journals, 1852, - 29,296 17 Ditto of 1853, (in part) 18,906 22 Miscellaneous, - 37,771 05	, - ,
There has been paid for printing since the adoption of the contract system, from July 1, 1852, to July 1, 1853, including the Laws and Journals of both years, viz:Legislative,\$58,411Census blanks and returns,41,147Paper,16,962Laws and Journals, 1852,29,296Ditto of 1853, (in part)18,906	, - ,

By section 2 of the Act of March 9, 1850, it is required of the Secretary of State to "aid the Comptroller in the examination of all accounts rendered by the State Printer."

Your Committee find upon none of the vouchers, (or rather bills of account unaccompanied in most cases by the printed vouchers whereby to measure the amount of work,) any evidence of the rendition of such aid or examination on the part of the Secretary of State, nor prior to the year 1852, of any computation by disinterested practical printers to test the accuracy of the accounts. With the passage of the Act of 1852, that of 1850 was repealed, and the Secretary of State released from that duty. The custom since then has been for the Secretary of State to certify to the receipt of the document, when not ordered by the Legislature ; and in the latter case for the Clerk of the Assembly or the Secretary of the Senate, to certify that the printing has been ordered, and with the Sergeant-at-Arms, that it has been delivered. The present Comptroller has used great care in all these matters; has had the printed vouchers filed away, and in most cases called in "experts" before final With this loose manner of settling accounts rendered under first printsettlement. ing law, before them, your Committee were stimulated to examine with severity the vouchers within their reach, and with the aid of a practical printer, estimated the work upon the Laws and Journals of 1850. See Appendix B.

Mr. Winchester had been pa		-	-	-		\$30,222 85
The estimate of work as mad					ted by th	ie
Committee, including the	bindin	g, amo	unted to	) -		30,325 46
-		-				
Apparently underpaid,	-	-	-	-	-	\$102 61

Laws and Journals of 1851. Your Committee are of opinion that it was the intention of the Legislature [see Section 12 of the Act of April 22, 1850, page 341,] that when printing was done out of the State to the prejudice and injury of our own mechanics, a reduction of one half from California prices should be made. The Comptroller, on consultation with counsel, found a strict construction of the law to be adverse to this view, and audited the account for printing as presented. The Laws and Journals of 1851, were printed in New York, [see Appendix C.] that of the Laws badly executed, and were delivered in 1852, sometime after the meeting of the Legislature, having been purchased by Mr. Casserly from Mr. Fitch for about twenty-two thousand dollars in Comptroller's Warrants, and immediately turned over to the State and bills presented, audited and paid for thirty-nine thousand five hundred and fifty seven dollars and eight cents. Your Committee had the work on these Laws and Journals estimated at California prices. See Appendix B.

. . . . . .

Estimate of work on Journals of 1851,		•			-		\$14,193	41
Add binding 800 volumes, 1868 pages		, 1,4	94,400			~~		
1 cent*	-		-	- ]	4,944			
Less 40 per cent.,		-	-		5,977		8,966	40
•							\$23,159	81
Warrants drawn for	-		-	-	-		26,812	
To Eugene Casserly, estimated as ove	rnaid 4	n J	[ ournals	a of				
1851,	- Parte (	- -	- -		-		\$4,652	91
Estimate of work on Laws of 1851,	-		-	- {	5,507	29		
Add full binding at 1 1-4 cents per pa	ge,	-	7,318					
Less 40 per cent., -			2,927		4,391	10		
					4,591	10		
				\$	86.898	39		
Warrants drawn for -	-	-	-		1,744			
To Eugene Casterly, estimated as over Total estimates to have been overpaid t	paid o to Eug	n La enc (	aws of I Casserly	1851 z. for	., r	-	1,845	97
printing Laws and Journals of 1851	,	-	-	,	•		- \$6,498	88

By voucher No. 3134 it appears that \$9,834 was paid to E Casserly for 1400 quires poll-tax receipts and 90 quires Comptroller's orders, paid in accordance with law; but by same voucher a bill for paper \$3,297 and \$180 is not certified by the Secretary of State as required by section 5 of the Act of 1850, (page 84 of Statutes

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^{*}The bill of Mr. Casserly charges this binding at 1+ cents per page. See prices fixed by Section 12, of Act of March 9, 1850, page 84, Statutes of 1850. "Nore" It is due to the Computer and to Mr. Casserly to remark here that all the printing accounts of Mr. Casserly were certified to be correct by two practical printers.

of 1850,) under which this amount was paid. The paper upon which legislative reports and other documents were printed is charged at \$16 the ream, and that for bills at \$10 the ream.

### CONTRACT PRINTING FOR 1852 AND 1853.

Some errors were discovered in the manner of executing the printing under the contract system of 1852 and 1853. The fault was ascertained and acknowledged by the sub-contractors to be theirs, and the contractors had the error immediately rectified. The promptitude with which the printing of 1852 and 1853 has been executed, contrasts greatly to the credit of the contractors, as compared with the printing of previous years. The cost of noting, indexing and appendixing the Laws and Journals has been the subject of examination by your committee. The accounts have been paid in accordance with law, and the rates not exorbitant if we except that for appendixing, which is clearly the solace of the office.

### FOLDING AND STITCHING.

The cost of folding and stitching, and putting up in blue paper covers the Journals only of the two last sessions, will amount to something more than twenty-five thousand dollars; the rate paid under the contract system being one and one-quarter cents per page, and this bid being below that of the Alta California, which was one and one-half cents per page, or over thirty thousand dollars for this work. The cost of folding, stitching and putting up in blue paper covers of each Journal of the Assembly for 1852 was eleven dollars; of each Journal of the Senate, nine dollars and ninety-two cents. And the Journals for 1853, at an estimate of twentyfive thousand pages, (far below the number.) will cost, if in one Journal, thirty-one dollars and twenty-five cents each, for folding, stitching and putting up in blue paper covers. Four hundred and eighty per session are printed under the Act of 1852.

### THE ANNUAL APPROPRIATIONS.

By Act of February 12, 1	850, ther	e was	appropriated	l to defray	the ex-	
pense of Government,	-		··- ·		-	\$1,000,000
Act of May 1, 1851,	-	-	-	-		500,000
Act of May 4, 1852, -	-		-	-	-	600,000
Act of May 11, 1853, for	expense	s of (	Fovernment	to close	of fiscal	
year, 18523, -		-	-	-	-	300,000
				Total,	-	\$2,400,000
Your committee have ex	amined v	vith se	verality the	warrants	to pay	expenses of

Government drawn upon the Treasury, together with the vouchers, and find them to amount for

First and second fiscal years, eighteen mo Third fiscal year, Fourth fiscal year,	onths, -	-	-	\$933,869 09 - 925,694 56 1,151,301 04
Expended beyond appropriation.	Total.	_	<b>\$</b> 610,86	\$3,010,864 86 \$4 89

The Comptroller of State, in view of the fact that most of the statutes providing for expenditures of money, have directed the warrants for payment to be drawn by the Comptroller, has considered the statute as clearly pointing out the line of his duty, and has by consequence drawn warrants, as above stated, far beyond the appropriations

The custom of most of the States of the Union, as well as of Congress, require *specific* appropriations to be named in the annual appropriation bill; and where a failure in this respect is had to provide for any just account, it must nevertheless await subsequent legislative action. Your committee deem it important that this principle be properly defined by legislative action, for the guidance of the officers of State. The duties of the Comptroller of State especially, so arduous and responsible, should as far as possible, be clearly defined Few men could have been found to wade through so large an amount of very intricate cases for adjudication with the same clearness of perception and ability of judgment as Comptroller Pierce. The matter of surprise rests with your committee that so few errors have occurred in such an extent of labor.

Your committee, in addition to recommendations under their appropriate heads, would in conclusion further recommend,

*First*, That the prices of the public printing be generally reduced, and be made to include the folding and stitching—that a fixed rate *per volume* be adopted for binding.

Second, That a Public Printer be annually elected by the Legislature.

Third, That the printing of reports of committees be made in limited quantity, and no bill be printed until after specific order of the Senate or Assembly, as the case may be.

*Fourth*, Provide for indexing and noting separately from appendixing; the former being now fairly and the latter extravagantly paid for.

 $F\iota/th$ , Direct by Joint Resolution that an attested copy of the Journals of the two Houses be made by the Secretary of the Senate and by the Clerk of the Assembly respectively, and deposited in the State Library for public examination. Your committee submit that this would be fulfilling the requirement of the Constitution in relation to the Journals, that they be published. A written document, open to the inspection of all citizens, is as clearly a publication as though it were a printed document open alike to inspection. The extract from the record is now as it then would be, attested by the Secretary from the written record.

Sixth, As the Comptroller cannot go behind the audit of the officers of either House, where errors sometimes occur despite the greatest care, your committee recommend that a *joint committee on legislative expenses* be raised, to examine every account for legislative expenses, and that the account, after being so audited, be approved by the President or Speaker, as the case may be, if he find it correct.

Screnth, Provide that the census of 1855 be taken by the Assessors of the various counties, embracing merely the constitutional requirement of enumeration of the inhabitants, and that it be done at a nominal rate per head.

The enormous amount of annual expenditures now provided by law and usage, contrasted with the position of the finances of the State, has induced your commit tee to go more thoroughly than they would otherwise have done, into recommendations for reform in our public expenditures. Unless the experience of the past be lies the future, these recommendations will receive little attention from the Legislature or from the people. By and by, however, when a continuous *funding system* will have saddled upon the people a rate of taxation of European character, and that too *merely to pay interest*, without one or scarcely one visible monument of value in return: there will, when too late, be some waking up from this prosperous dream. Not a building save the Insane Asylum and the Prison—not a place where a State officer can leave a paper with safety, belongs to the State.

After an expenditure of more than three millions of dollars, and after seven removals of the archives of State, they are subject to be burned or stolen by any one sufficiently industrious to take the trouble.

All of which is respectfully submitted.

(Signed)

WM. H. LYONS, Chairman. PAUL K. HUBBS, M. M WOMBOUGH, JOHN Y. LIND, Senate Com. on Pub. Expenditures. PHIL. T. HERBERT, Com. of the Assembly.

BENICIA, October 31, 1853.

### APPENDIX "A."

Cash Receipts, July 1st, 1851, to April 1st, 1852, into State Treasury.

CR.

1851.	1851.	
Aug. 18. El Dorado county,	381 17 Sept. 15. Paid to Sacramento State Hospital,	4,680 66
21. Tuolumne county,	315 40 Divers dates paid Sacramento and Stor	
Sept. 9. Santa Cruz county,	817 67 State Hospitals to March, 1852, inclusive,	9,258 $62$
15. Sacramento county,	4,680 66 Sept. 20. Paid Stockton State Hospital,	1,017 32
15. San Francisco county,	4 65 Nov. 8. and 19. Judge Hester,	1.500 00
15. " city,	29 25 11. Richard Roman,	1,168 00
20. San Joaquin county,	1,017 32 19. Paid Richard Roman,	200 00
Nov. 8. Santa Clara county,	500 00 11. to 19. E. D Hammond, Clerk to Treas	urer,
11. El Dorado county,	$1,850 \ 00$ $1,314 \ 50, \ 400, \ 100,$	1,814 50
19. San Francisco county,	30,000 00 Nov. 11. J S. Houston, 600, 2,000,	2,600 00
•	11. W. M. Smith, Clerk to Comptroller, 600, J	100, 700 00
	19. R Roman, to pay interest,	9,000 00
Nov. 28. Contra Costa county,	1,750 00 19. For Gold Scales and Wood,	265 63
29. Sacramento county,	14,600 00 19. E. Buckingham, Treasurer S. F. Co,	7,476 00
-	19. John C. Hays,	2,130 00
	19. T. W. Sutherland,	1,065 00
	19. E. W. Thorp,	1,043 35
	19. J. W. Pierce,	$1,250\ 00$
	19. A. G. Kemble, Clerk to Secretary of State	, 3,008 00
	28. Richard Roman,	1,000 00
	28. Judge Hester,	$375 \ 00$
	29. E. D. Hammond,	$300 \ 00$
	29 J. S. Houston,	2,000 00
	29. Lewis B. Harris, Sac.,	12,121 18
	29. Jacob Lefebre,	12 00

Dr.

APPENDIX "A."--CONTINUED.

1851.

### 1851.

Dec. 1. Santa Clara county, per J. Murphy,	5,000 00 D	cc. 1. John Murphy, 2,120, 2,000,	4,120 0
9 Yuba county,	48 82	1. Carriere & Abano,	200 0
10 Solano county,	2,718 50	1. Jacob Lefebre,	12 0
15 Contra Costa county,	5,011 40	1. Wainwright, Byrne & Co.,	131 50
15. Nevada county,	6,626 00	1. C. J. Whiting,	400 0
15. Contra Costa county,	2,280 89	1. E. D. Hammond, 350, 131,	481 0
17. Sacramento county,	3,000 00	10. E. D. Hammond,	500 0
18. Placer county,	3,518 66	10. W M Smith,	700 0
18. Marin county,	4,402 03	10. W Van Voorhies,	500 0
19. Butte county,	2,549 30	15. Joseph Winston, Solano,	1,120 0
19 Shasta county,	3,338 43	15. " " " "	3,061 7
19. Monterey county,	7,108 37	15. John E. Addison,	
19. El Dorado county,	3,991 84	15. W. Van Voorhies,	2,476 0
10. III Dolado county,	5,551 04		1,150 0
		15. E. D. Hammond,	
		15. W. M. Smith,	1,926 0
		15. J. F. Howe,	143 8
		15. B. F. Pinkham,	515 0
		18. W. M. Smith,	260 0
		18. A. G. Kimble,	1,240 0
		19. " "	3,050 0
		20. " "	3,033 0
		18. John E Addison,	451 1
		18. G. K. Fitch, 2,410 10	

 $\mathbf{C}_{\mathbf{R}}.$ 

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## APPENDIX "A."-CONTINUED

Dr
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CR.

16

1851.	1851.
	10. W. M. Smith, 2,284, 98 and 1,533,       3,817 98         10. J. S. Houston,       875 00         10. W. M. Smith,       47 50         15, 18 and 20. B. Chapman, three payments,       482 79         19. T. J. M. Smith, two payments,       896 00         19. W. S. Sherwood,       500 00         19. John E. Addison,       1,300 00         20. """       1,280 39         20. Souris fans,       70 00
Dec. 25. Yuba county, 25. Sutter county, 29. El Dorado county,	7,531       54       Dec. 26.       E. D. Hammond,       300       00         1,000       00       25.       W. M. Smith,       1,260       00         160       00       26.       W. Van Voorhies,       250       00         24.       B. F. Pinkham,       500       00         25.       "       "       500       00         25.       John Reddick,       8       00         25.       J. Perry, jr.,       2,950       00
<ul> <li>1852</li> <li>Jan. 2. San Joaquin county,</li> <li>2. Santa Cruz county,</li> <li>2. San Joaquin county,</li> <li>5. San Francisco county,</li> <li>7. Yolo county,</li> </ul>	31. J. S. Houston,       48 00         445 50       29. W. M. Smith,       160 00         7,085 56       28. Thomas Addis,       51 00         8,961 86       28. Bassham & Wilson,       16 00         25,203 57       15. V. Staley,       119 00         2,501 60       29. H. P. Dorsey,       21 00         Jan. 3. Richard Roman,       500 00         6. ""       1,000 00

Dr

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1852.

1852.	1852.	
Jan. 23. Napa county,	Jan. 10. Richard Roman, paid E. D. Hammond, 4,790 70 8. E. D. Hammond,	$\begin{array}{r} 250 \hspace{0.1cm} 00 \\ 140 \hspace{0.1cm} 00 \end{array}$
24. San Francisco county, 26. Los Angeles county,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,387 60
26. Santa Barbara county,	2,450 00 6. ""	1,200 00
26. Fund Commissioners, San Francisco,		153 00
26. San Diego,	1,296 00 2. W. M. Smith,	100 00
8,	8. ""	3,090 00
	6. ""	5,675 00
	8. " " 5. (7. T) T) 1 ( )	860 95
	5. C. E. Buckingham,	4,000 00
	6. and 8. J. Perry, two payments,	4,957 17
	1. Frank Perry,	5 00
	1. Jacob Lefebre,	00 6 1 100 00
	1. S. B. Farwell,	1,400 00
	1. W. T. Barbour, three payments,	2,303 00
	0.	$839 \ 00$
	3. Moulthrop, $\begin{array}{c} 1,800 \\ 2,401 \end{array}$	$4.201 \ 00$
	3. H. T. Boeram,	575 00
	3. Joshua Smith,	$6 \ 00$
	3. John Cook, interest fund,	$45 \ 20$
	8. Eli Jones,	$5 \ 00$
	9. Ham & Flourney,	$9 \ 00$
	10. John R. Wilson,	9 50

APPENDIX "A."-CONTINUED,

CR.

1852		1852.			
		24 24 23	. R. A Eades,	-	00 00 00
<ul> <li>Feb. 11. Sacramento county,</li> <li>11. Santa Clara county,</li> <li>17. Colusi county,</li> <li>21 Tuolumme county,</li> <li>23. Yuba county,</li> <li>26 Solano county,</li> <li>Mar. 1. Sonoma county,</li> <li>Nothing more received from March 1st to April 1st, 1852.</li> <li>Total received from January 1st to April 1st,</li> </ul>	2,692 1,594 3,578 2,900 2,597 4,800	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<ul> <li>Richard Roman,</li> <li>W M. Smith,</li> <li>W. Van Voorhies,</li> <li>John McDougal,</li> <li>F. Foreman,</li> <li>S. B. Farwell,</li> <li>H. A. Lyons,</li> <li>W. R. Hopkins,</li> <li>W. W. Gift, freight, legislative order,</li> <li>E. Covington,</li> </ul>	$\begin{array}{c} 6,200\\ 750\\ 1,220\\ 393\\ 591\\ 250\\ 20\\ 616\end{array}$	00 00 00 04 00 00 00
1852,	\$98,556	29	<ul> <li>From February 13th to March 2d, to thirteen members a total of</li> <li>From March 1st to April 1st, under special act, to ninety-three members, average of \$155 cach member,</li> </ul>	938 14,438	

The above contains all the entries on the cash book between the date mentioned, in consolidated form.

18

### APPENDIX C.

### The Report of Senate Committee on Public Expenditures, acting with Assembly Committee in the examination of accounts and vouchers of Comptroller and Treasurer of State, October 31, 1853.

TESTIMONY OF G. K. FITCH, AUGUST 2, 1853.

Question.—Were you appointed State Printer by Governor McDougal, and if so, when ?

Answer.—I was appointed State Printer by Governor McDougal, on the 2d of May, 1851.

Ques —Did you cause to be printed, the "Laws and Journals" of the session of 1851, in book form, in accordance with the law directing the manner of printing the same?

Ans.—I caused the "Laws and Journals" for 1851 to be printed in accordance with the directions of the Secretary of State and the Constitution of California. There was no law or statue especially directing the manner of printing the "Laws and Journals" of the session of 1851.

Ques.—Where was the printing done ?

Ans -In New York.

Ques.—What disposition did you make with the volumes so printed ?

Ans — I delivered them to Eugene Casserly. The Secretary of State refused to receive them from me, in consequence of a decision of the Supreme Court, declaring my appointment null and void, and sustaining the validity of the election of said Casserly to the office of State Printer.

Ques —Did you, on the order of Eugene Casserly, make any printed alterations; if so, what were they ?

Ans —At the request of Casserly, I had the title page of the Laws and Journals so altered, that his name appeared thereon as State Printer instead of my own. I also supplied an "errata" to be inserted in each volume of the Laws.

Ques — Are the Laws and Journals before spoken of, the same that were delivered by Eugene Casserly to the Secretary of State, and which are now in general use?

Ans ---Yes.

Ques.—When you undertook to print the Laws and Journals, what was your understanding of the law in respect to printing done out of the State?

Ans —It was my opinion when I first investigated the subject, that the law referred to, applied only to the Laws and Journals of 1850, and could not affect the printing of any subsequent year. At the time of my appointment, however, before making this investigation, it was my impression that a law remained in force, requiring a reduction of fifty per cent on the statute price, for any printing done out of the State, and allowing the State Printer to charge for transportation of books, & e, should he avail himself of the privileges of the law. With this understanding I accepted the office, and such also being the understanding of Gov. McDougal, I felt bound to make out my bill accordingly; which would have been my course had I retained the office till the Laws and Journals were delivered to the State officers

Ques.-What amount of money did you receive from Engone Casserly in pay-

ment for the printed Laws and Journals, by you delivered to him; and how many of the Statutes and how many of the Journals did you so deliver?

Ans.—As near as I can recollect, I received from Casserly \$22,000, in Comptroller's warrants; varying, perhaps, a few hundred dollars from that amount. I think the number of Statutes delivered was 1050, and 750 Journals.

Subscribed and sworn to before me, this 3d day of August, 1853.

WILLIAM H. LYONS, Chairman Committee. Document, No. 8.

IN THE ASSEMBLY.

[PESSION OF 1854.

## REPORT

OF

# COMMITTEE ON AGRICULTURE,

RELATIVE TO THE

INCORPORATION OF THE AGRICULTURAL SOCIETY.

[GEORGE KERR, STATE PRINTER.

## REPORT OF COMMITTEE ON AGRICULTURE.

Mr. Speaker :

The Committee on Agriculture to which was referred a Bill, to "incorporate a State Agricultural Society," have had the same under consideration, and beg leave to report :

Your committee, appreciating the vast importance of the subject, would be wanting in the discharge of a high and imperious duty to the State and the people, were it to permit the occasion to pass, without making use of it, to commend the subject to the earnest and favorable consideration of the House.

This is not merely a Bill to create an incorporate society whose influence only affect those immediately interested, and has no bearing upon the State, or upon the great masses of the people—but it is a bill, the provisions of which will act upon every interest, affect all classes of our citizens and touch with electric power every branch of industry throughout the entire State.

Four years ago the agricultural resources of this State, were comparatively unknown. Prior to that time, so little attention had been given to the subject, that much of the soil which experience has demonstrated to be highly productive, was deemed almost valueless. A crude and miserable process of agriculture had induced the impression that but a limited portion of our soil would justify cultivation, without irrigation, and consequently immense tracts of our highlands and mountain slopes, were regarded as fit only for pastural purposes. This error has given way before the speeding plow, and it is now found that the cultivation of those lands in grain, will yield as rich returns as the cultivation of the valley lands, and instead of the agricultural resources of the country being circumscribed, and confined to a few vallies, limited in extent, and requiring irrigation, highlands and mountain sides are found to be equally productive, and valuable.

It is a pleasant and cheering picture, to see hundreds of pleasant homes and wide spreading fields laden with rich abundant harvest, on lands which but a few years ago were deemed almost unfit for cultivation.

Thus, has the experience of a very brief period of time demonstrated the great fact, that the agricultural resources of California are vast and almost incalculable—not only capable of abundantly supplying the millions destined

to inhabit the great Pacific empire now springing up with magic rapidity, with all of the necessaries and luxuries grown in the most favored regions of the world, but of producing a large surplus for external commerce.

It is conceded that agriculture is the basis of the wealth, and prosperity of all civilized nations, and that the condition of agriculture in a country, furnishes a true and unerring index of its moral, mental, and scientific progress. It is indeed impossible in the nature of things, for a people, or a nation to attain any degree of eminence without pursuing an enlightened system of agriculture.

Advanced agriculture and its kindred branches of horticulture and floriculture are pursuits peculiar alone to civilized life. The barbarian never plants a tree, nor flower; his coarser taste has no appreciation of the value and magnificence of the one, nor the beauty of the other. These pursuits, congenial alone to the cultivated man, constitute the foundation upon which the social system rests, and bind the citizen to his country by the strongest of all ties.

Give men land to own, to cultivate; let them adorn and surround their homes with the comforts, and the various forms of beauty which result from advanced and scientific agriculture, and you build up in the country fortresses more impregnable than can be devised in any other way.

Then to protect, to foster and encourage by every legitimate means this vast department of industry, appears to your committee, to be one of first and most imperative duties of the Legislature of this State. California in its relations to agriculture, is a peculiarly interesting country.

We are now in our infancy. We have the lights of experience to guide us; we are cognizant of the fatal errors other States and other people have committed; we see and know how to avoid those errors. Then, let us while we have a virgin soil, unparalleled in variety and richness of production, at once introduce a system of agriculture which will secure to us and to the State the highest degree of prosperity for the time being, and enable us to transmit—unimpaired by our negligence or folly—the great advantagcs which we now enjoy, to those who will succeed us. Let us establish a system which experience has demonstrated to be productive of the most benificent results in other States, and lay now, the sure and enduring foundations of future prosperity and greatness.

It is believed by those well informed on this subject, that the immense sum of twenty-five millions of dollars is annually employed in the import provision trade of California.

Is it not important to arrest this vast drain upon the country? We have also reliable information that within the past year there has been imported more than half a million barrels of flour, making from five to ten millions of dollars for this single article. The latter sum will now. and hereafter, in all probability, be retained in the country, as the home production will fully supply the home demand.

Now in view of the general importance of the subject, other States are moving in the matter, and stretching forth the hand of encouragement and protection; why should not California do so likewise?

A much greater necessity exist here than in other States.

At present our staples consist of very limited variety, and of these a surplus will soon be produced, hence the vast importance—the overruling necessity of encouraging the cultivation of new products, and before the extensive cultivation of new products can be with prudence engaged in, experiments must demonstrate the adaptation of our soil and climate to their pro-It must be ascertained that such new products can be successfully duction. and profitably cultivated. Your committee believe that the surest and speediest mode of attaining the great ends in view, is the immediate organization of a State Agricultural Society, with liberal appropriations for its This appropriation is not asked for merely to support an institusupport. tion as such, but to enable it to perform duties, the accomplishment of which shall give back to the State, the richest returns-to build up, make permanent and perpetuate the most vital interests of the State-to open those fountains from which issue streams that will refresh forever the hills and valleys of this "bright land." This interest is receiving liberal encouragement in other States, and California now presents features in agriculture, that shall, if properly regarded, be as momentous as any the world ever saw. Our vast tule lands can be reclaimed, and fields of rice, cotton and tobacco can be made to flourish and add their untold value to the wealth of our people and State. Tea, coffee and sugar will also be numbered among the rich products of California, if that wise care so much needed, be given to nourish the germ which is now in embryo.

The opening of China and Japan reveals sources of wealth in the forms of new and varied productions of the Celestial world; and shall California avail itself of these offerings that progress holds out to us?

The sheep and the goat can feed upon our thousand hills, yielding their fleeces for our manufactories. Our sunny slopes will be adorned by fruitful vineyards, and beautified by groves of the mulberry, affording food for the worm that shall clothe our people with the costly silks that now draw our treasures to other nations. The people, too, of the Celestial kingdom will bring their knowledge, both of agriculture—of which they possess vast stores—and of the manufacturing of those costly fabrics, adding all these to our own sources of wealth.

To accomplish these great objects, a stimulus must be given; the State must extend the hand of encouragement and protection. We therefore recommend the establishment of a "State Board of Agriculture," and the passage of the Bill referred to us, providing for the Incorporation of a State Agricultural Society," with liberal appropriations in land and money for its support.

All of which is respectfully submitted by order of the Committee.

### W. S. LETCHER.

Document No. 9.

IN THE ASSEMBLY.]

[SESSION 1854.

## REPORT OF COMMITTEE

ON

# SALES OF WATER LOT PROPERTY.

[B. B. REDDING, STATE PRINTER.

## **REPORT OF COMMITTEE.**

Mr. Speaker:

The Special Committee, appointed "to take into consideration the communication of the Treasurer of the State to ascertain the amount of property sold by the City of San Francisco under the Act of March 26, 1851, and to ascertain the amount of such sales to which the State is entitled to 25 per cent.," and "also the amount otherwise disposed of under the provisions of said Act," have had the same under consideration and beg leave to make the following report:

Before giving a statement of the different sales, which have been made of Beach and Water lot property, under the provisions of said Act, by the City of San Francisco and other parties, we would say that to comply fully with the requisitions of the resolution, under which we were appointed, demands more time than we, with other duties claiming our attention, could possibly appropiate exclusively to this subject; but being sensible of the magnitude of the interests entrusted to our care, we have labored assiduously to a correct completion of our task, and most respectfully recommend to the consideration of the Assembly the following estimates of sales of Beach and Water lot property.

That the amount of Beach and Water Lot Property sold by Peter Smith, on different executions against the City of San Francisco, included within the present water front, since the passage of the Law of March 26, 1851, amounts, as appears from schedule A, herewith submitted, to the sum of fifty-eight thousand, eight hundred and sixty-five dollars, exclusive of property sold under same judgment on the 30th January, 1852, and which is claimed by the city by redemption.

That the amount of Beach and Water Lot Property, sold by others on different executions against the City, as appears from schedule B, herewith submitted, amounts to the sum of eleven thousand and eightynine dollars.

That the sum realized to the City of San Francisco, by the sale of the above property, amounts to sixty-nine thousand mue hundred and fiftyfour dollars. That the sales of property made by the Fund Commissioners, amounts to the sum of one hundred and nineteen thousand, four hundred and forty dollars, as appears by reference to schedule C.

That the sales of property made by the Joint Committee on Land Claims, appointed by the Common Council of the City of San Francisco. under an ordinance approved December 5th, 1853, amounts to the sum of one million, one hundred and ninety-three thousand, seven hundred and fifty dollars, which will appear by reference to schedule D, hereto annexed, that the sum of five hundred and twelve thousand, four hundred and eighty-eight dollars and sixty-seven cents, has been received by the Committee from purchasers, on account of payments, leaving a balance due from said sales of six hundred and eighty-one thousand, two hundred and sixty-one dollars, and thirty-three cents. The chairman of said Joint Committee further adds, that notes were made by purchasers of portions of said property and delivered to them, amounting to the sum of three hundred and thirty-seven thousand, three hundred and eighteen dollars and forty-eight cents; but that property, amounting to three hundred and forty-three thousand, nine hundred and forty-two dollars and eighty-five cents, was sold; for which the City has no security, and wich will probably never be called for, but remain in the same condition, as if the same had never been offered for sale. Thus it will be seen that property, in which the State of California is interested has been disposed of to the amount of:---

By Peter Smith Judgments,		•		\$58,865
Other Judgments, .				11,089
Joint Land Committee,				1,193,750
Fund Commissioners,	•		•	119,440
				<u> </u>
				$\$1,\!3\$3,\!144$

In addition to the above, your Committee would further report, that on the 30th January, 1852, a large amount of Beach' and Water Lot Property was sold under a judgment rendered against said City of San Francisco, in favor of Peter Smith, for three thousand, five hundred and sixty dollars, which said property, so sold, is specified in schedule E, hereto annexed: that said property was sought to be recovered by redemption, by the City of San Francisco, subsequent to said sale, but that your committee are advised, (unofficially) that the Supreme Court have decided against the claim of the redemptionists.

That the amount of property sold, and the manner of such sale, as well as the amount due the State of California is set forth, in schedule G, hereto annexed.

That the entire sum of money paid into the State Treasury by the City of San Francisco, under the Act of 26th March, 1851, amounts to the sum of seventy-eight thousand, five hundred and sixty-seven dollars and ninety-five cents.

That the sum of five thousand one hundred and sixty dollars and fifty cents has been paid into the State Treasurer at different times, by purchasers under judgments against the City of San Francisco, in favor of Peter Smith and others, but that there is no evidence before the Committee going to show that they were authorized by the City to make such payments, and in the opinion of the Committee, the said payments were made without any authority of law, and hence no rights were vested or created in consequence of such payments.

Your Committee, although not required by the Resolution under which they are acting, to report upon those matters which do not effect the disposition of the Beach and Water Lot Property, under the act of March 26, 1851, yet will refer incidentally to those sales which have been made by the Board of California Land Commissioners.

From a report made by the State Treasurer, it seems that property to the amount of seven hundred and nine thousand four hundred and seventy-five dollars has been disposed of at public sale; that on the 3d April, 1854, at which time said report was made out, the sum of two hundred and thirty four thousand nine hundred and five dollars and eighteen cents had been paid in to the State Treasurer, said sum being exclusive of the payments made in States Prison Bonds.

That the sum of ninety-two thousand dollars in State Prison Bonds, was received on account of said sales, making in all the sum of three hundred and twenty-six thousand nine hundred and five dollars and eighteen cents.

That there has been paid to the Fund Commissioners, by the lessees of the California and Market Street Wharf, the sum of \$11,936 69; by the lessees of Broadway Wharf, \$3,222 74; and by the lessees of Pacific Street Wharf, the sum of \$16,159 56, making in the aggregate \$31,318 99.

That the sum of seven thousand six hundred and eighty-five dollars has been received by the Comptroller of the City of San Francisco for the ret of certain other wharves, and which is more particularly set forth in schedule G hereto an exed.

By reference to the report of the Joint Committee on Land Claims, (see schedule D) it will be seen that the sum of five hundred and twelve thousand four hundred and eighty-eight dollars and sixty-seven cents (\$512,488 67) has long since been paid to them, and that notes to the amount of one hundred and fifty-one thousand and forty-three dollars and forty-eight cents, (\$151,043 48) matured on the 28th Feb., 1854; and also four month notes falling due on the 27th April, 1854, for the sum of one hundred and eighty-six thousand two hundred and seventyfive dollars, (\$186,275 00), which if paid at the time they fall due would show in the hands of the Joint Committee the sum of eight hundred and forty nine thousand eight hundred and seven dollars and fifteen cents (\$849,807 15) of which sum the State is entitled to two hundred and twelve thousand four hundred and fifty-one dollars and seventy-eight cents, (\$212,451 78), (less the amount heretofore paid,) that being twentyfive per cent. of the receipts arising from sales of the Beach and Water Lot Property.

Until the time shall have expired for the purchasers to make their final settlements, according to the terms of sale it will be impossible for this Committee to report the precise amount the State is entitled to, as a large amount of property will, no doubt, remain uncalled for, and must be resold, but as near as can be ascertained, a balance of one hundred and sixty-three thousand seven hundred and forty-three dollars and eighty-four cents, (\$163,743 84) is shown to exist in favor of the State from San Francisco.

Your Committee make up the amount as follows:

Payments made as per schedule D,
\$969,247 15 Of which sum the State is entitled to twenty-five per cent. amounting to\$242,311 78 Deduct payment heretofore made,
Balance due the State from San Francisco,

As has been already remarked we have not had sufficient time to devote to this subject, which its importance demands, and with increased powers we respectfully ask leave to sit again. We therefore submit the following resolution for your approval:

Resolved, That the Special Committee appointed "to take into consideration the communication of the Treasurer of the State, to ascertain the amount of property sold by the City of San Francisco under the act of March 26th, 1851, and to ascertain the amount of such sales to which the State is entitled to twenty-five per cent.;" and "also the amount otherwise disposed of under the provisions of said act," have power to send for persons and papers, and to take testimony.

> J. C. JONES, Chairman, F. A. PARK, GEO. H. VAN CLEFT, JOHN J. HOFF.

### SCHEDULE A.

Water	Lot,	Number	20, for	\$105	00
"	"		21, for		
"	"	"	22, for	55	00
"	"	"	23, for	55	00
"	"	"	25, for	135	00
"	"	"	27, for		
"	"	"	28, for	90	00
46	"	"	29, for	85	00
"	"	"	30, for	250	00

τις	т	N7	04	C	490.00
water	Lot,	Number	-51, 	for	620 00
		"		for	350 00
"		"	-33,	for	290 00
	~~			for	70 00
44			35,	for	125  00
	"	44		for	75 $00$
"	"	"	37,	for	355 00
46	"	""	-38,	for	$210 \ 00$
"	"	"	-39,	for	$260 \ 00$
"	"	""	64,	for	$100 \ 00$
"	"	44 .	65,	for	$210 \ 00$
"	"	4.	-66,	for	$60 \ 00$
"	"	"	-67,	for	$50 \ 00$
"	"	"	68,	for	$115 \ 00$
"	"	"	-69,	for	180 00
"	"	"	71,	for	$185 \ 00$
"	"	"	72,	for	$210 \ 00$
"	"	"	73,	for	$205 \ 00$
"	"	"	74,	for	$50 \ 00$
"	"	14	75,	for	$80 \ 00$
"	"	"		for	$55 \ 00$
"	<b>,</b> '	"	89,	for	$65 \ 00$
"	, 	"		for	210 00
""	"	"		for	230 00
"'	"	"	92.	for	230 00
"'	"	"	94.	for	105 00
"	"'			for	50 00
"	"	"		for	$125 \ 00$
"	"	"	97	for	50 00
46	66	"		for	90 00
"	"	"		for	120 00
"	"	" 1		for	110 00
"	"	" 1	01	for	50 00
"	"			for	85 00
"	"	" 1	03	for	110 00
"	"	" 1	$04^{-0}$	for ,	90 00
"	"	" 1	05.	for	95 00
"	"	" 1	06'	for	105 00
"	"	" 1	07	for	95 00
"	"	" 1	08	for	105 00
"	"			for	\$5 00
"	"'			for	110 00
"	44	" 1	11	for	90 00
"	"	" 9	73	for	510 00
"	"		94	for	625 00
44	"			for	315 00
"	"	" 3	12'	for	510 00
"	"	" 3	13	for	490 00
		0	,		2.0 00

Wa	ter Lot.	Number	·315.	for	655	00
ü	,	"	316.	for	550	00
"	"	""	319	for	610	00
"	44	"	320	for	535	00
44	"	"		for	200	00
**	"	"	299	for	310	00
44	"	"	298	for	560	00
"	66	"	259	for	310	00
"	"	"	271	for	300	00
"	"	"	279	for	240	00
	46		300	for	$\frac{240}{225}$	00
"	"	"			255	00
"	"	44	400, 191	for	$\frac{200}{215}$	00
"	"	"	400	101	505	00
"	"		444,	for	$\frac{505}{240}$	00
"	44	"	457	for	$\frac{240}{250}$	00
"	"	"		for	250 630	00
"	"	"	409,	for	150	00
"	"	"		for	410	00
44	"	"		for	940	00
"	"	"	500,	for	500 = 500	00
"	"	"		for	1,025	00
"	•6	"	500,	for	900	00
"	"	"		for	300	00
"	"	"		for	850	00
"	46	"	514	for	1,265	00
"	"	"		for	1,305	00
"	"	"	516.	for	1.020	00
"	"	"'		for	1,190	00
"	"	"	534.	for	320	00
"	"	"	580.	for	970	00
"	"	- 44		for	1,375	00
"	"	"		for	725	00
44	"	"'		for	670	00
44	"	"		for	510	00
"	"	"'	679.	for	510	00
44	٤.	"		for	405	00
"	"	"		for	400	00
"	"	"		for	370	00
"	<u>،</u> د	"'		for	370	00
"	""	£1	690.	for	330	00
44	"	"	721,	for	260	00
""	"	"	724,	for	285	00
"	"	"	726,	for	285	00
"	"	"	731,	for	360	00
"	"	11	767,	for	380	00

Water Lot, Number 770, for ..... \$215 00 " " 772, for.... " 335 00

\$35,130 00

Water Blocks in Southern portion of City of San Francisco.

Amount brought	forward,	\$35,130 00
Block No.		
"	2,	
"	4,	
"	5,	
"	6,	
"	7,	•••
"	8,	
"	9,	
"	10,	
"	13,	100 00
	14,	
	15,	
	$16,\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots$	•••••
	17,	
	18,	
	19,	
	20,	
	$21, \ldots	
	$22, \ldots$	
	23,	
	24,	
	26,	
	27,	150 00
	28,	135 00
	$29, \ldots$	
	30,	
	31,	50 00

\$45,865 00

All that fractional tract of ground covered with water, bounded on the westerly side by a line 100 varas east of the eastern line of Davis street, when extended and running parallel to Davis street, on north by Pacific street, on the south by Jackson street, and on the east by the eastern boundary of the beach and water lots of said city, as defined by Legislature for the sum of  $\frac{2}{2}$ 

2,850 00

	\$58,865	00
the east by the extension of Davis street for	3,050	00
All that tract of ground covered with water, being 100 varas square, bounded on the south side by Pacific street, on the north by Broadway, on the west by Front street, and or	5 9 1	
Market street, and on the westerly side by the four beach and water lots numbered on the official map of said City from 571 to 574 for	ı	00
All that tract of ground covered with water, bounded on the north by Sacramento street, on the southeasterly side by		00
bounded on the west by Front street, on the east by Davis street, on the north by Jackson street, and on the south by Washington street,	7	00
as defined by the Legislature of the State, for the sum of All that tract of ground covered with water, being 100 varas		00
the south by Washington street, and on the east by the boundary of the beach and water lots of the aforesaud City.	÷	
All that tract of ground covered with water, bounded on the west by Davis street, on the north by Jackson street, on		

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### SCHEDULE B.

Sold on Execution of Morrow 1s. City of Sun Francisco, Aug. 18, 1851.

That certain tract of land bounded on the easterly side by the extension of Drum street, on the northerly by Pacific street, on the southerly side by Jackson street, and on the westerly side by Davis street, being 100 varias square for \$3,000 00

## Sold on Execution of Winter & Latimer vs. City of Sun Francisco, Sept. 18, 1851.

Water Lot 229, sold for (Nov. 10, 1851.)	$40 \ 00$	)
That tract of land bounded on the westerly side by Drum		
street, on southerly side by Clay street, and on easterly		
side by the eastern boundary line of city, as defined by		
Legislature, for	-1,125 00	)
Also the 100 vara square, bounded on the northerly side by		
Vallejo street, southerly side by Broadway street, and		
westerly side by Front street, and on easterly by the ex-		
tension of Davis street,	$1,125 \ 00$	ł

### SCHEDULE B.-Continued.

### Also Beach and Water Lots No. 290, Also Beach and Water Lots No. 291,

### Sold on Execution of Morrison vs. City, Oct. 23, 1851.

- All that piece of ground bounded on the northwesterly side by Harrison street, on the southwesterly side by Spear street, on the southeasterly side by a line 50 varas south of the southerly line of Harrison street, and running parallel to Harrison street in an easterly direction to the water lot boundary, and on the easterly side by the easterly boundary of the beach and water lots as defined by the Legislature, for
- Also 50 vara lot commencing at a point where the southerly line of Folsom street intersects the westerly line of Spear street, thence running southwestwardly on Folsom street, 50 varas, thence southeastwardly at right angles, 50 varas, thence northeastwardly 50 varas to Spear street, thence along the westerly line of Spear street 50 varias to point of beginning

Sold on Execution of Morrison vs. City of San Francisco, Oct. 23, 1851.

Also 40 vara lot commencing at the southeasterly intersection of Folsom and Front streets, thence running southcastwardly on Front street 50 varas, thence northeastwardly 50, thence northwestwardly 50 varas, to Folsom street, thence along the line of Folsom street 50 varas, to place of beginning,

- Also 50 vara lot commencing at a point 50 varas southeastwardly from the southwesterly intersection of Folsom and Spear street, thence running southwestwardly paralle. Folsom street 50 varas, thence southeastwardly 50 varas, thence 50 varias to Spear street, thence along the line of Spear street, northwestwardly 50 varas to beginning,
- That 50 vara lot commencing 50 varas southeastwarly from the southeastwardly intersection of Folsom and Front streets, running northeastwardly parallel to Folsom street 50 varas, thence southeastwarly parallel to Front street 50 varas, thence northeastwardly 50 varas to Front street, thence northwestwardly 50 varas to place of beginning,
- That 50 vara lot commencing at the southwesterly intersection of Folsom and Front streets, running southwestwardly on Folsom street 50 varas, thence southeastwardly 50 varas, thence northeastwardly 50 varas to Front street, thence nortwestwardly 50 varas, to beginning,
- That 50 varas lot commencing at the southeasterly intersection of Folsom and Beal streets, running southeastwardly

450 00

 $425 \ 00$ 

250 00

460 00

 $150 \ 00$ 

575 00

11

930 00

1,640 00

## SCHEDULE B.—Continued.

streets, for	270	00
Also block number eleven (11) between King and Channel		00
ning,	575	00
southwestwardly along Folsom street 50 varas, to begin-		
thence northwestwardly 50 varas to Folsom street, thence	;	
on Beal street 50 varas, thence northeastwardly 50 varas,	1	

\$11,089 00

## SCHEDULE C.

Sale of City Property by Theodore Payne & Co., at their Sules Room, Sept. 17, 1852, at Public Auction, for cash, by order of the Commissioners of the Funded Debt.

	LOCATION.	PRICE NAMES OF PURCHASERS. NAME INSERTED IN DEED.	
No. 1 10	150 Vara Lot No. 1, corner of Larkin and Beach streets,         250 "" " 2, on Beach street,         350 "" " 3, corner of Hyde and Beach streets,         350 "" " 4, " " and Jefferson streets,         50 "" " 5, on Jefferson street,         50 "" " 6, corner of Jefferson and Larkin streets,         950 "" " 1, corner of Mason and North Point,         20 "" " 1, corner Powell and North Point streets,         21 3, N. W. corner Powell and Beach streets,	115 Moses Hoyt.     Moses Hoyt.       135 William Smith.     Ex-Governor Wm. Smith.       140     do.       170     do.       170     do.       500     do.       00     do.       1500     do.	115 135 150 140 170
16	23       5, on Beach street,         24       6, S. E corner Mason and Beach streets,	600       do.       do.         900       do.       do.         950       George C. Potter.       Geo. C. Potter.         900       Henry Meigs, President.       David D. McCarty.         1100       David C. McCarty.       Geo. C. Potter.         s       950       George C. Potter.         900       Henry Meigs, President.       Geo. C. Potter.	950 1100 950 900 950

## WATER PROPERTY, NORTH BEACH.

## Water Lot Property-South Beach, Subdivided into 100 vara Lots.

	LOCATION.	PRICE, NAMES OF PURCHASERS.	NAME INSERTED IN DEED.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<ol> <li>corner Bay, Third and Channel streets,</li> <li>Nos, 1 and 3, and Berry and Channel,</li> <li>corner Berry, Fourth and Channel streets,</li> <li>corner Irwin, Simmons and Hubbard streets, No. 1 &amp; 3,</li> <li>corner Irwin, Harris and Hubbard streets, No. 1 &amp; 3,</li> <li>corner Iubbard, Simons and South streets,</li> <li>between Hubbard and South streets, No. 1 &amp; 2,</li> <li>between Hubbard. Harris and South streets,</li></ol>	1175 do. 1175 do. 450 James Blair. 400 C. C. Bowman. 500 A. Merrill. 500 H. Lambert. 420 George Gordon.	Lowis Peck. do. do. Mrs M J. Blair. S. Heydenteldt & S. Bowman, Henry Lambert. George Gordon. do.	$1200 \\ 1175 \\ 1175 \\ 450 \\ 400 \\ 500 \\ 420 \\ 525 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 120 \\ 1$

Water Lo	's on	the	East	Front	of	the	City.
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······	and the state of the							
611  70	ou East	street.	hotwoo	n Market and Mission,	050 J. W. Dwinelle.	Lewis Peck.	1\$5050	
		Der Cee,	00000000	T BUGITOD SHIT HELSOLOHIN (Cho)	ood a. H. Dannene.			· ト.
619 71	٤.	٤.	"	Folsom and Howard, 4	600 George Gordon.	Geo. Gordon.	4500	- 1-
0191 11				Totsom and Howard'	ond den ge dordon.	Juco. Gordon.	1 1000	í-i-i

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[Appendix,

Sale of City Property, Continued-September 20, 1852.

## WATER PROPERTY, NORTH BEACH.

					LOCATION	PRICE.	NAMES OF	PURCHASERS	SAME INSERTED IN DEED	
No 6	8	50	"	No.	1, N. E. corner Mason and Beach streets,           2, on Beach street,           3, N. W. corner Powell and Beach streets,	250 270	1	do		-
		50	"	"	3, N. W. corner Powell and Beach streets,	420		do.		-
		50	<b>64</b>	"	4, S. W. corner Powell and Jefferson streets,	. 750		do.		1
		50	**	"	5, on Jefferson street, 6, S. E. corner Jefferson and Mason streets,	500		do,		
	12	50	"	"	6, S. E corner Jefferson and Mason streets,	. 700		do.		
8		50	"	**	1, N. E. corner Jones and North Point Streets,	240	J. T. McDoug		James T. McDougal,	2.40
		50	"	"	2, North Point street,	- 360	1 Hitheringte		loseph Hitherington.	360
		50	*1	4.	3, N. W. corner Taylor and North Point streets, .	625	C G Carter.		Charles G. Carter.	624
		50	"	"	4, S. W. corner Taylor and Beach streets,	675	B Philips.		Francis A. Holman.	675
		<u>ð</u> ()	"	"	5, on Beach street,	420			્યુંગ	420
		50	66 66		6, S. E. corner Jones and Beach streets,	475			do.	475
11	25		"		1, N. E. corner Powell and North Point,	815	Geo. C. Potter	r <b>.</b>	S. Merritt, G. C. Potter, H. P.Hoyt	
		<u>50</u>	"		2, on North Point street, 3, N. W. corner Stockton and North Point,	650	B Philips.		Francis A. Holman.	650
	27		"		3, N. W. cornel Stockton and North Point,	1-100	C G. Carter.		Charles G Carter.	1400
	28		"		4, S. W corner Stockton and Beach streets,	1800	Dr. Merritt		S. Merriti, G. A Potter, II P Hoy t	
	29		44		5, on Beach street,	1400	George C Pot	ter	do. do. do	1400
10	30		"		6, S. E. corner Powell and Bench streets,	1000	Dr Merritt		do. do do.	2000
12	31		"		1, N. E. corner Stockton and North Point streets,	1930	C. H. McClella	ina.	Charles II. McClelland.	1950
	$\frac{32}{33}$		"		2, on North Point street,	975			do,	975
	33 34		"						do.	2125
	34 35		"		4, S W corner Dupont and Beach streets,				do. do	2825
	30 36		"	"	5, on Beach street,	5000	Moses Hovt.		Moses Hoyf.	1450
14			"	"	1, N. E. corner Jones and Bay streets,	1095	Jeshua Norto		Joshua Norton.	5000
14	37	50			1, 14. 12. Corner somes and Day Streets,	1029	ocentral Mollo		positia Norion.	1050

## SCHEDULE C.—CONTINUED.

## Sale of City Property, Continued-September 20, 1852.

## WATER PROPERTY, NORTH BEACH.

LOCATION.	PRICE NAMES OF PURCHASERS.	NAME INSERTED IN DEED.	
38       50       vara lot No. 2, on Bay street,	<ul> <li>1350/B Richardson.</li> <li>900/James Philen</li> <li>825/Joshua Norton.</li> <li>675/James Philan.</li> <li>925 Hoyt.</li> <li>1200/C D Carter.</li> <li>1100/Wilham Heser.</li> <li>675/S. H. Bowman.</li> <li>1250/T. Schulthers.</li> <li>1625/Geo. C Potter.</li> <li>1000/Dr Gautier.</li> <li>2300/C D. Carter</li> <li>2125/William Thompson.</li> <li>1025/D. L. Ross.</li> </ul>	Joshua Norton. Benjamin Richardson. James and Michael Philan. Benjamin Richardson. Joshua Norton. James and Michael Philan. Henry P. Hoyt Charles D Carter. William Heser. Joshua Soulé Bowman. John Frederick Schulthers. S. Merritt, G. C Potter, H.P. Hoyt Leon P. Gautier. Charles D. Carter. W Thompson, jr., S. B. Whipple Daniel L. Ross. S. Merritt, G. C. Potter, H.P. Hoyt	$10 \\ 28 \\ 24 \\ 10$

## SCHEDULE C.-continued[•] WATER PROPERTY, SOUTH BEACH.

#### November 5, 4852.

	LOCATION.	PRICE	NAMES OF PURCHASERS.	NAME INSERTED IN DEED.	
1	100 vara lot, No 3, in Block corner Itwin, Harris and Hubbard,	275	Dr Hitchcock.	Eliza Hyche Hitchcock.	275

-Sale of City Property, Continued, November 5, 1852.

302       Fasterly side of Beach street, near Market Wharf.         311       "adjoining above.         652       On East street, between Mission and Howard streets.         653       """""         655       """         655       ""         655       "	M Reese, do, Nagle, Musson, Pope Caseely,	Michael Reese, do. II M. Nagle, Eugene Musson, A. J. Pope, Eugene Casserly,	4550 4300 7400 7350 7150 7050 37,800
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January 13, 1852.

Water Lot 534, Lawrence, \$4,000

#### [APPENDIX,

### SCHEDULE D.

## MAYOR'S OFFICE, SAN FRANCISCO, March 29, 1854.

o Special Conmittee of Assembly--

Gentlemen:

I yesterday had the honor to present to you a statement showing that the amount of money bid for the property sold by Selover & Sinton, under order of the joint Committee on Land Claims, as authorized by ordinance of the Common Counsel, approved December 5th, 1853, \$1,193,750 00 was That there had been received by the Committee, from purchases on account of payments 512,488 67 \$681,261 21 1 beg leave now to add for your information that the committee have in their possession, notes of the purchasers, given by them on settlement amounting to \$151,043 48 60 day notes matured Feb. 28, 4 months notes falling due April 27, 186,275 00

337,318 48

343,942 85

That amount will in all probability be collected, although the parties owing may require time.

There then remains unpaid, for which the city has no security, and which property will probably never be called for, but remain in the same condition, as if the same had never been offered for sale, the sum of

In the present state of the money market, and in view of the known great depreciation in the value of real estate, I deem it advisable not to offer at this time the uncalled-for lots at public sale; but shall take occasion to do so when a more prosperous state of the money market shall justify a hope that prices may be obtained, approximating to those received at the last sale.

In the mean time, all efforts shall be employed by me, not only to collect the notes already matured and about to mature, but also to make the parties responsible for the balance due on purchases, on which the first payment alone was made, and for which no notes were given, which sum will amount to, in round numbers, thirty-five thousand dollars, (\$35,000.)

I have the honor to be, gentlemen, very respectfully, your obedient servant,

Signed, C. K. GARRISON, Mayor, and Chairman Joint Committee on Land Claims,

by SMYTH CLARK.

#### SCHEDULE E.

- The following Water Lot Property was sold under execution of Peter Smith, against City of San Francisco, Jun. 30, 1852, and is claimed by the City by redemption.
- All that piece or parcel of ground, 100 varas square, bounded on the northwestwardly side by Harrison street, on the north easterly side by Front street, on the southeasterly side by Block No. 3, and on the southwesterly side by Beale street. \$230 00
- Also that tract of ground covered with water, 100x50 varas, bounded on the west by Kearney street, north by Francisco street, east by Montgomery street, and south by Chestnut street,
- All that piece or parcel of ground commencing in the northwest corner of Front and Harrison streets, running thence along Front street in a northwesterly direction 150 varas, thence at right angles 100 to Beale street, thence along Beale street, 150 to corner of Beale and Harrison streets, thence in a northeasterly direction, along Harrison street, 100 varas to place of beginning,

North	Beach,	block	No	5.1	sold f	for	 	 	 	 	125	00
"	41 '	"	""		sold f						55	$\dot{0}\dot{0}$
64	"	"	"		sold f						115	00
"	44	""	"'		sold f						110	00
46	"	4.	"		sold f						110	00
44	"	44	٤.		sold f						125	00
"	44	46	"		sold f						85	00
44	44	44	46		sold f						120	00
44	44	44	"		sold f						160	00
44	44	44			sold f						305	00
"	"	"			sold f						300	00
44	"	"			sold f						215	00
44	44	"			sold f						220	00
٤.	"	"	"	17	sold f	òr	 	 	 	 	650	00
"	"	"	٤.	19	sold f	or	 	 	 	 	340	00

\$3,560 00

 $75 \ 00$ 

220 00

#### SCHEDULE F.

## Account of Moneys paid in by City of San Francisco on sales of Beach and Water Lots, sold under Act of March 26, 1851.

1852. January	26. C	o. h	from	Fund Commissioners	01 000	00
1853.	20 <b>.</b> —C	11211	nom	Fund Commissioners,	\$1,000	00
February	1.—	"	"	í. í	10,000	00
March	26	"	"	Hıram Pierson,	1,312	
	7.—	"	"	D. W. Connelly,	212	
<u> </u>	8	"	44	Fund Commissioners	7,000	
"	29	"	"	<i>u u u u</i>	8,267	
May	20	"	• '		2,300	
August	4.—	"	"	C. W. Grinnell,	287	
Septembe		"	" "	H. S. Fitch, per R. H. Sinton,		75
- <i>.</i> .	1	"•	"	James King of Wm	127	50
December	: 2.—	"	"	Robert Rankin,	452	50
"	6	"	44	J. W. Leonard,	231	50
"	6.—	"	44	M. Matison,	27	50
"	6.—	"	"	H. C. Beals,	32	50
"	13	"	"	Charles Horner,	106	25
44	13	"	"	C. R. Sanders and S. W. Holliday,	112	50
"	13	"	"	S. W. Holliday and D. G. Perkins,	37	50
"	16	"	44	H. D. Cogswell,	83	75
"	24	"	"	Levi Parsons,	32	50
"	24	"	"	A. J. Ellis,	410	00
22	24	"	٠.	J. M. Moss,	712	50
"	29	"	44	Dexter Brigham, Jr	593	00
1854.						
January	2	"	"		343	
11 -	14.—	"	"	Fund Commissioners,	50,000	00
				-	082 798	45

\$83,728 45

## SCHEDULE G.

Property sold by Joint Committee on	Total amount of Sales.	Amount due the State, be- ing 25 per cent.
Land Claims, Property sold by Fund Commissioners, Amount received by Fund Commis- sioners—	$\$1,193,750\ 00\ 119,440\ 00$	\$298,437 50 29,860 00
From lessees of California and Market street Wharf, From lessees of Broadway Wharf, ""of Pacific street Wharf,	$\begin{array}{cccc} 11,936 & 69 \\ & 3,222 & 74 \\ 16,159 & 56 \end{array}$	
Amount received by City Comptroller of San Francisco—	\$31,318 99	7,829 $74$
From Washington street Wharf,	$2,550\ 00$	
" Clay street Wharf,	2,525 00	
" Jackson street Wharf,	$1,290\ 00$	
" Vallejo street Wharf,	620 00	
" Adams & Co.'s Wharf,	600 00	
" Wilson's, Flint's Wharf,	100 00	
	\$7,685 00	\$1,921 50

#### ACCOUNT OF PROPERTY

Sold in the city of San Francisco by the California Land Commissioners under authority of the Legislature, approved May 18, 1853.

OF LOT.	WHERE SITUATED.	SIZE OF LOT.	DATE 1853	PURCHASERS NAMES,	AMOUNT SALE.	"I' ST PAY'T, 10 Fer Cont	DEMARKS.
64	cor. Jackson & Fr't,	45 ft. 10 in. by 137 ft	Sept. 12.	Wm Arrington,	12,850	1,235	
69	cor. Wash.& Front,	"	֥ 5	If E. Sweitzer,	20,000	,	
65	On Front street,	45	Oet. 20.	Wm. Arrington,	8,100		
66	"	<b>61</b>	**	Wm. Heeser,	9,150		
67	"	"	"	Rodgers Friedman,	8,700		
68	"	**	"	Chas D. Carter,	9,050		
70	cor. Wash. & Bat.,	"	"	B. Grafferty,	18,500		
71	On Battery street,	¢1	"	Chas. S. Compton,	9,250		
72	**	"	"	do	9,100		
73	"	44	"	Henry S. Dana	9,100		
73	"	**	"	do	10,100		

Amount of Sales, \$123,800

Amount of expenses audited by the board for which certificates have issued,	\$11,603	75
1853, Nov. 26, Amount received by State Treasurer,	37, 324	
Dated 25th November, 1853	,	

#### REPORT

Of Board of California Land Commissioners for State Property sold in the City of San Francisco, December 28, 1853, under and by virtue of an Act of the Legislature, approved May 18, 1853.

OF LU	T HOW SITUATED.	DIMENSIONS.	DATF, 1853	10 WHOM SOLD	AMOUNT SALF.	1	REMAR	кя.	
19	S. W. cor. Front & Broadway	45 10-12by 137 6-12	Dec. 28.	H. B Platt,	12,250	Transferred by	purcha	se to Hyan	Joseph.
<b>2</b> 0	On Front street,	i i	**	"	7,000	"			" .
21	"	"	• • •	"	7,500		۰.	**	"
22	"	"		H. C. Worth,	7,750	"	"	Palmer Co	ok & Co.
23	"	"	"	"	8,000	"	"	"	
24	N. W cor. Front & Pacific,	"	"	"	13,750	"	"	"	
25	N. E. cor Pacific & Battery,	cc .	"	C. H. Swain,	19,500				
26	On Battery,	"	"	II C. Worth.	12,500				
27	( ) ) · · · · · · · · · · · · · · · · ·	"	**	C. H. Swain,	9,500				
28	66	"	46	J. H. Ray,	10,000	"	"	Hall M	Allister.
29	"	"	**	"	8,000	"	**		
30	S E cor. Battery & Broadway,	"	"	"	6,900	"	"	"	<b>1</b>
1	S. W cor. Broadway & Davis		**	Chas. Wood,	12,750	"	46	Palmer Co	ok & Co.
$\hat{2}$	On Davis street.	"	"	Geo. Reed.	8,600	"	"	"	
3		"	**	C II. Stanton,	8,500	**	"	"	
4	**	"	"	"	8,750	**	"	"	
5	**	"	"	T. Place,	9,250	"	"	**	
Å	N. W. cor. Davis & Pacific,	"	"		14,500	**	"	**	
7	N. E. cor. Pacific & Front,	"	**	Chas. Wood,	14,200	**	"	**	
8	On Front street,	"	**	H. C. Worth,	8,750	64	"	**	
9		"	**	f Place.	9,250	"	**	"	
10		"	"	H. C. Perry,	9,400	"	"	"	
11	· · ·	**	"	"	9,600	*6	"	**	
12	S. E. cor. Broadway & Front,	"	"	"	12,200	"	"	"	
33	On Battery street,	"	**	D. C. Broderick,	650				
34	"	**	"	IL C. Worth,	1,375				

#### **REPORT CONTINUED:**

O. OF LO	T. HOW SITUATED.	DIMENSIONS.	date 1853.	TO WHOM SOLD.	AMOUNT SALE.		REMARKS.	
35	On Battery street.	45 10-12 by 137 6-12	Dec. 28.	H. B. Platt,	4,250	Transferred by	v purchase to J	Trom Iozuh
36	N. W. cor. Battery & Pacific		"		15,100		parentase to j	ayam boseph,
75	S E. cor. Jackson & Battery	"	"	Chas. S. Casle,	12,250	Lot 75 bo't by W H	White at sale Oct	20, 153, for \$20,000
1	N.E cor. Front & Washington	" by 60	"	John A Monroe,	4,250	Lot 75 bo't by W II failing to comply win and suit has been or	th terms of sale wa	is resold on his acc
2	On Front street,	30 ft. by 60	"	Bowman,	4,600	Transferred ha	purchaser to	runey S. Haydonlahdt
3		20 ft. by 60	"	W. H. Middleton,	2,600		Parentaser 10	5 mey demend
4	"	"	"		3,000			
5	S E. cor. Front & Oregon,	"	"	"'	3,200			
6	On Oregon street,	30 ft. by 55	"	Bowman,	2,200	<u> </u>	"	"
7	ŭ	22 ft. by 55	"	John Rockfort,	1,600			
8	**		"	W. II. Talmadge,	1,500			
9	"	"	"	"	1,800			
10	£6		"	II. Casement,	1,650			
11	**	"	"		1,600			
12	S. E. cor. Davis & Oregon,	24 ft. by 75	"	"	4,350			
13	On Davis Street,		"	Capt. Roberts	3,500	"	"	"
14	**	"	**	Bowman,	3,500	"	"	"
15	"	"	"	W. H Talmadge,	3,400			
16	N.E.cor.Davis & Washington	"	**	"	5,500			
17	On Washington,	22 ft. by 65	**	"	3,900	ĺ		
18		"			2,750	}		
19		"	"	II Casement,	3,000			
20	"	36 "	"	Bowman,	4,750	"	"	"
21	**	18 "	"	S C. Hastings,	2,700	ł		
<b>22</b>	"	20 "		John A Monioe,	3,100	1		

Total amount of sales, \$350,175 Amount received on above sales, as per receipt Richard Roman, Treasurer of State, on file in this office, \$72,622 44 Total expenses of this board since report of Nov. 1, ult., to date as per vouchers on file in your office, \$11,193 16.

#### LIST

# Of Purchasers and Amount paid by them in Sale of March 9th, and 10th 1854.

LOT	PURCHASERS.	AM'NT.	AM'NT
23	Solomon Heydenfelt,	\$1,200	8215 00
24	J. Neefus,	850	490 00
25	Solomon Heydenfelt,	950	
26	Imenc'k Tams & Co.	2,800	280 00
27	Charles E. Bowman,	1,550	
28	64 66 66	1,350	
29	46 66 66	1,300	636 00
30	44 66 46	1,250	
31	R. II. Middleton,	1,350	140 00
32	John Satterlee,	1,900	1,127 25
33	W. H. Talmadge,	1,550	1,051 00
34	" "	1,550	-,
35	66 66	1,700	
36	Henry Casement,	1,600	300 00
37	Eug. Crowell,	4,500	450 00
38	S. C. Hastings,	2.000	
39	44 44 ⁻	2,000	
40	W. Probasco,	1,850	228 00
41	Polloek,	1,700	
42	"	3,000	528 00
43	H. Casement,	1,225	
44	W. H. Tailmadge,	1,125	
45	« « ⁻	1,050	
46	¢1 44	900	
47	John Satterlee	1,500	
48	Jas Clinton,	1,900	190 00
49	J. S. Higgins,	2,025	200 00

IN BLOCK BOUNDED BY OREGON, DAVIS AND FRONT STREETS.

BLOCK BOUNDED BY JACKSON, OREGON, DRUM AND DAVIS STREETS.

12	Palmer, Cook & Co.	: 2,800 [	
13	41 41 4.	2,000	
14	46 64 <b>64</b>	2,200	
15	Charles Wheeler, (nottaken)		
16		3,000	
17	Nefus.	5,200	
18	R Buck,	2,500	
		2,550	
19	E. H. Tharp and E. J. Ramsdell,	2,100	
20		2,100	
21	R. Buck,	2,700	
22	Isaac N. Thorn,	4,000	1,000 00
<b>23</b>	•• ••	2,500	-,
24	Sharp & Broadie,	2,200	220 00
25	A. J. Ellis,	3,000	300 00
26	R. Buck,	2,000	000 00
27	E. H. Tharp and A. J. Ramsdell,	1,800	766 00
28		1,700	100 00
29	John C. Hayes and Ira Monson.	1,700	174 00
80	Nefus.		176 00
001		1,550	
	4		

#### LIST OF PURCHASERS .-- CONTINUED.

BOUNDED BY OREGON, WASHINGTON, DRUM AND DAVIS STREETS.

LOT			PURCHASERS.	AM'NT.	AM'NT.
1	Messrs	Beard &	Hopkus,	5,350	\$3,508 32
2	66	"	1,,	2,900	• •
3	"	16	**	2,600	
4	"	"	"	2,400	
5	"	"	"	2,450	
6	"	"	<b>6 f</b>	2,300	
7	**	"	"	2,200	1
8	"	"	"	2,300	
9	**	"	"	2,300	
10	"	"	"	4,300	
11	"	"	"	5,000	

#### JACKSON, OREGON, DRUM AND EAST STREETS.

1 ;	W. H. Talmadge,	2,600
2	J. A. Woeber,	2,000 200 00
8	S. C. Hastings and E. J. Moore,	2,050 205 00
4		3,000 1,257 40
5	11 12 13 <b>1</b> 4	2,400
6	** ** **	1,300
7	66 66 68 68	1,350
8	J. A. Woeber,	1,600 340 00
9		1,800
10	Rider,	1,500
11	H. O. Dinnell,	1,200 132 00
12	T. R. Johnson, (not taken)	1,525
13		7,800
14	¢¢ 44	9,200

#### OREGON, WASHINGTON, DRUM AND EAST STREETS.

1	Beard & Hopkins,	2,700
3 2	44 UL 1	2,100
3	<b>6-</b> 12	2,500
4	46 66	4,500
5	** **	1,800
6	<i> </i>	1,900
7	<i>u u</i>	1,900
8		1,500
9		1,400
10	£6 66	1,900
11	46 46	2,000
12	<i>ce ce</i>	1,300
13	<b>6</b> 1 (1	1,400
14	46 46	1,900
15	46 61	2,100
16	46 6b	1,750
17	** **	2,300
18	** **	2,800
19	46 46	2,200
20	** **	2.200
21	Geo. Stider, (not take	n) 4,000
22		6,100

#### BROADWAY, PACIFIC, SANSOME AND BATTERY STREETS.

#### LIST OF PURCHASERS .-- CONTINUED.

#### BOUNDED BY BROADWAY, PACIFIC, FRONT AND BATTERY STREETS.

LOT			PURCHASERS.	AM'NT.	AM'NT.
25 (	Palmer			6,500	
26	£6	"	"	3,700	
27	**	"	"	3,800	1

#### S. E. CORNER BATTERY AND BROADWAY.

30	Hall McAllister		1,000	1
		Sum Total,	\$235,3000	\$13,939 97

IN THE ASSEMBLY.]

[SESSION 1854.

## REPORT

ON THE

## GEOLOGY OF THE COAST MOUNTAINS,

AND PART OF THE

# SIERRA NEVADA:

EMBRACING THEIR INDUSTRIAL

**RESOURCES IN AGRICULTURE AND MINING,** 

BY DR, JOHN B. TRASK.

[B. B. REDDING, STATE PRINTER.

To His Excellency,

#### JOHN BIGLER,

Governor of the State of California.

Pursuant to resolution of Assembly, passed Feb. —, 1854, I have the honor herewith to submit the accompanying report on the Geology of that portion of the State, authorized by Joint Resolution of Senate and Assembly of the fourth session, all of which, with accompanying plates, is respectfully submitted.

Yours, &c.

JOHN B. TRASK.

TO THE SENATE AND ASSEMBLY

#### OF THE STATE OF CALIFORNIA.

Under the Joint Resolution, passed May 6. 1853, by the Senate and Assembly of the State of California, authorizing a farther Geological examination of some parts of the Sierra Nevada and Coast Mountains, and report the results of the same to the ensuing Legislature, I have the honor of submitting the following report in relation thereto, and in conformity to the above requisitions.

#### JOHN B. TRASK.

## PREFACE.

The examinations authorized were entered upon soon after the passage of the resolution, and continued until the 28th of November, comprising a period in the field of about six months. The first five weeks were occupied in examinations of the more elevated and western portions of the Counties of Butte, Sierra, Yuba, Nevada and Placer, in determining, as far as possible, the position of an ancient water course in this section of the State, and its peculiarities—the description of which will be found in the body of this report.

On the 23d June, the southern portion of the tour was commenced, and carried on almost uninterruptedly for four months. The route south was carried through the Counties of San Francisco, Santa Clara, Santa Cruz, Monterey, and the north part of Luis Obispo; on the west, and returning on the east, (or through that range denominated the *Monte Diablo* Range) by the west part of Tulare County, Mariposa, Tuolumne, Alameda, Contra Costa and San Joaquin.

The range of country bounded on the north by the Straits Carquinez, and south by the Nacismiento, was divided into four sections, formed by lines running nearly east and west from the great valley to the coast. On the first of October, the country north of the Straits Carquinez was entered, and preliminary examinations only were made in the counties of Solano, Napa and Sonoma. From the County of Napa a section was carried across the basin of the Sacramento, and connected with examinations inade two years previous on its eastern edge. A similar section was also made, passing eighteen miles south of Monte Diablo and continued across the San Joaquin.

The remainder of the months of October and November was employed in investigations of the middle mining sections of the County of Nevada and those intermediate between the former and the middle and western parts of Calaveras county. This range leads through that section in which the principal gold mines of the middle portions of the State are located, and was selected, with the view of conducting those examinations which will be found in the appendix of this report, under the head of Quartz Mining. As those mines have of late presented many interesting facts connected with their ultimate prospects, a set of sketches representing the positions of the views and investing rocks has been given for illustrating their present features.

Doing the tour in the agricultural sections of the State, the modifications of the soils in different sections has been noted, and the natural productions arising as resultants, where they seemed of a general character, and extending over any considerable area. The "Saline lands" have been observed, and the opportunities that were offered for their reclamation, whed at any time demanded. The extent of cropping and resultant crops in some parts of the State, are of peculiar interest, and the facts developed in this particular will prove of much value to our agricultural interests, being an exhibition of the capabilities of some our soils for the production of the necessaries of life, unexcelled in the history of the world.

The temperature of the mountainous and valley sections of both branches of the coast mountains, was noted as far as the nature of attending cir cumstances would permit, for the purpose of ascertaining as far as possible the peculiar adaptation of the different sections to the culture of **exotic** fruits and trees, and where no opportunity of personal examination offered, a careful inquiry of persons long resident in different sections, was made, by which many interesting facts have been obtained, relating to this subject.

This report will embrace the examination of a district of country, included within 120° 16′ and 122° 32′ west longitude, and from the thirtyfifth parallel to the thirty-ninth degree of north latitude, inclusive of the coast mountains and mineral districts.

The coast mountains are watered by thirty-two streams, the most of which are small, their names and the counties in which they are located will be found below.

RIVER.
Sonoma.—
Napa.—
Merced
San Antonio.—
San Leandro
San Lorenzo.—
Alameda.—
Coyote
Aguagos.
San Felipe.—
Gaudalupe
Los Gatos
Camels.—
Llagos.
Carnadero
Pescadero.—
La Brae.—-
San Lorenzo.—
Lougell
Syante.—
San Augustine

#### COUNTY.

Monterey.

San Luis Obispo. San Francisco. RIVER. Corallitos. Pajaro. San Benito. Carmello.— Berjeles.— San Antonio. Salinas.— Francisquito.— Nacismiento. San Mateo. San Francisquito.—

There are twenty-three of these streams which furnish a sufficient quantity of water for milling purposes, and are marked with a dash, (--) the above list does not include many small arroyas that course through these sections.

9

## REPORT.

The coast range of mountains, and its included valleys, which form the principle subject of this report, extend from the 42nd paralel north latitude to the southern boundary of the State. Their general features present much more diversity of character than is usually to be found in the eastern chain of mountains, which forms the Sierra Nevada; from the occurrence of a greater variety of rocks constituting their mass, and the much greater area of covered by the sedimentary formations, the principle of which are sandstones, interspersed occasionally with calcareous rocks, and more rarely slates; this latter class of rocks forming but a small proportion of the sedimentary formations, of which later extensive portions of the coast line of mountains is composed.

The eastern belt of the coast range presents a repulsive aspect to the traveller as he approaches it from either hand, from its naked and barren appearance, producing but little of forest growth in any part of it, while those portions of the coast line of hills proper, are covered to a great extent with forest trees, consisting principally of the redwood, pine, and spruce, with groves of oak near their base, all of which are well adapted to the wants of the settler and usually easy of access.

This peculiarity in the two principal ridges of this chain was general for near three hundred miles of their course, the eastern ridge presenting no traces of timber except here and there an isolated patch of the pine on some one of its higher points; and for miles in extent even low shrubs are almost entirely absent.

Notwithstanding the barren aspect of the eastern belt of the coast mountains, it is not to be inferred that their slopes or valleys are unproductive, for it is found to be otherwise, being covered with a luxuriant growth of native grains and grasses, with herbaceous plants, affording extensive pasturage for flocks and herds. The lower foothills of the range, and the immediate banks of the small streams that meander through them, afford a few scattering oaks and other trees, but not sufficient in extent to furnish more than a very small local demand, to so extensive a population as the valley sections at the base of these hills must in a few years require. The oak groves found on the plains are not adapted to any other uses than that of fencing and for fuel. The western or coast line of mountains must become the principal source of supply, in lumber for building purposes, except that which may be obtained by importation.

The coast range consists of two principal and distinct lines of ridges for a distance of nearly two hundred miles of their length; these are separated from each other by wide and long valleys that continue almost uninterrupted through their whole course, and should be considered as distinct ranges of one system both from their geographical position as relates to the mountains in which they are situated. The valleys have recieved different names, as the Santa Clara and Salinas; and these again are subdivided and recieve local names even on the same line of plain; they can be considered strictly but one valley, the lineo f continuity being broken by the interposition of a range of hills, not exceeding in altitude three hundred feet, and even below these figures.

This division of the Salinas from the Santa Clara is caused by a low spur putting in from the Gabilan range, in a direction nearly north-west. Across the northern part of this spur the Pajaro River, an inconsiderable stream, holds its course, discharging its waters into the Bay of Monterey. The extent and geographical position of these two valleys would seem to warrant a different arrangement than that at present existing in reference to the coast range; as they form a line as distinct and clear in the separation of the two principal ridges, as the valleys Sacramento and San Joaquin in the separation of the coast range on the west from the Sierra Nevada on the east.

The division of the coast range proposed will be bounded as follows: commencing at a point due east of Monte Diablo on the valley San Joaquin, the latter and the Tulare valley to form the east line to the intersection of both ranges with the San Bernardino Mountains, near the thirtyfifth degree north latitude, thence running west to a point that shall cut the west base of this range, and lying on the north-western border of the Salmas, thence north along the west border of the latter, and also the west border of the valley Santa Clara to the south-east terminus of the bay San Francisco, following the east coast of that bay to the point San Pablo. This range inclusive to be denominated the Monte Diabolo, and all mountains to the west of these lines to be still termed the "Coast Mountains." This division in the mountains now bearing the latter name, will become the more necessary when it is understood that much difficulty now exists in localizing phenomena and transactions that have from time to time occurred, as well also as another distinctive feature which marks them, viz: their relative age, the one being of comparative recent date to the other. The term "Coast Range" implies a line of mountains following the coast only, but which, as it is used at the present time, includes a chain whose eastern base is as far removed from the coast, as the foothills of the Sierra Nevada are from Bodega Bay on a line cutting through the City of Sacramento to the ocean. This chain, it will be seen, is separated by broad and long valleys, as distinct in their characteristics as the Sacramento and Sau Joaquin, while their length, including the bay San Francisco, equals the latter and has nearly half its average breadth. The geological and mineral characteristics of the two ranges are equally

as marked and distinct as their geographical position and vegetable productions, while the courses which both pursue are widely variant, forming an angle of thirty-six degrees in ninety-one miles. For local convenience of description this division should be made, if for no other reason.

A division, or rather a new arrangement, is to be introduced in relation to the entire mountain chains that lie upon the west side of the continent, which will give more uniformity and a much better classification than that now existing. It is not proposed however to change local names in the arrangement, but to name those parts of the mountains, which, as yet, have received none, except "Sierras," as they are termed. Through Mr. Blake, of the U. S. R. R. Survey, I am informed that it is now proposed to term the entire chain of mountains, extending through to the northern part of Oregon, and running south into lower California, "Cordilleras or Western America," and all those portions south of the thirty-fifth parallel of north latitude, [which, as yet, have received no name,] are to be termed the "Peninsula range" in order to separate them from the coast mountains with which they are now often confounded, and again as often termed Sierra Nevada, by persons who have occasion to describe them, or any part of them.

The terms "Sierra Nevada," and "Cascade Range," will thus be retained as local names, with their boundaries the same as before. The coast mountains will comprise the entire chain lying to the west of the above, and which are found to have an age more recent than the tertiary rocks, which rest upon them, and such local changes as may be necessary will be applied, but so far only as will be required in order to elucidate any peculiar characteristics they may possess.

This arrangement is one much needed, and is founded on strictly scientific principles, and this proposition of Mr. Blake will meet the universal concurrence of the country, as it will reduce the mountain chains of the western part of the continent, to a more perfect system than they have heretofore possessed.

A more specific classification of these mountains has before been proposed by different persons, among them that of Lieut. Wilkes, who proposed the term of "California Range of the Cascades;" for the Sierra Nevada being but a continuation of the former, all of them heretofore have been objectionable on the ground that old and established names would be changed by the arrangement; notwithstanding those names conveyed erroneous impressions. No such objection can be urged against the present proposition of the gentleman above named, as it affords a convenience of arrangement not heretofore suggested or presented to the public for their consideration. With these remarks on this part of our subject, we will proceed to the examination of the chain termed the Monte Diabolo Range.

#### GEOLOGY OF THE MONTE DIABOLO RANGE.

This chain of mountains forms the south shore of the Straits Carquinez and part of the bay of Suissun. The rocks bordering the bay and straits are mostly a sandstone, which belongs to a similar range occurring on the opposite shore. On the western flank of this portion of these moun tains, or on the east shores of the bay San Pablo, and north part of San Francisco, a range of sharp Peaks are seen; their slopes are abrupt from the summit for a considerable way down toward their base, and in the latter part of winter and through the spring are covered with wild oats and grasses.

For several miles these mountains are made up of trapean rocks. which have forced themselves through the sedimentary rocks, and are in all respects similar to the volcanic series that has protruded through the older and also more recent formations in the Sierra Nevada. These rocks are cut through and disturbed by a suite of igneous rocks of still more recent origin, causing material change in the structure of the rocks that preceded them, both sedimentary and plutonic. Among the latter we find the pitchstone and obsidian, showing conclusively that they belong to that class known as recent volcanic rocks. These rocks may be conveniently observed in some of the lower hills about two miles cast of the house of Victor Castro, in the County of Alameda. The more recent volcanic rocks form the first summit of the high ridge east of the bay, and the frequently isolated conical peaks to which they give rise, and which are known among the native inhabitants as (Picaches) stretch to the north for six miles, when they are replaced by the older trap rocks, and followed by the softer sandstones, which form the smooth rounded summits of the hills to the Bay San Pablo and Straits of Carquinez.

The sandstones on the shores present many marks of disturbance and change, by the intrusion of the late igneous rocks, and it is not unfrequent to find fine threads of quartz randfying through them in every direction; when this is the case, or when they are in contact with the more recent of the igneous group, their former structure is usually found materially changed, a conchoidal fracture in these rocks is often the result of this contact either in large or small masses.

There are considerable areas of the sandstone in these mountains, that present little or no traces of change, subsequent to their deposition, except that of uplift; thus proving that they must have been deposited on the trap rocks after the latter had become firm, and parted with their heat: but where the sedimentary rocks are found in close proximity with the later igneous rocks the change indeed in them is clear and decisive: thus demonstrating the fact that volcanic action has occurred at a date long subsequent to the period in which these rocks were deposited, and probably after their emergence above the surface of the sea, in which they had their origin. It was found, in examining the sandstones lying upon the older trapean rocks of this part of the range, that the fine threads of quartz before noticed, gradually increased in dimensions as they approximated the inferior strata of the sedimentary rocks, and where the igneous rocks were exposed to view beneath them, in favorable situations, they often exhibited true well and defined, though small veins of quartz passing through them.

These general characteristics continue south untill a point nearly east of the town of Oakland is obtained, and here the trapean group of rocks are interrupted to a certain extent. East of this town we find the primitive rocks occurring, and an outcrop of serpentine makes its appearance, together with some of its subordinate members, among which the Shales and some of the cherty rocks appear. These are flanked to the east with rocks of the trapean group, forming the high ridge in that direction, and are surmounted with the fossiliferous sandstones. The serpentine rocks of this district contain considerable quantities of chromic iron, but its extent is not accurately known. South of Oakland to San Antonio, the country is of the same character as that immediately preceding it. The mountains were not examined, but the creek was followed four or five miles, and its bed showed nothing to indicate a change in the structure of the country from which it has its rise, with the exception, perhaps, that the sandstone pebbles exhibited no marks of fossils.

These features were general for the entire distance to the San Leandro, being about eight miles: but after crossing this stream, the fossiliferous rocks become more fully developed and continue to gradually increase to the arroyo of the Alameda. The sedimentary rocks of this district rest on the older trap formations, with frequent small threads of quartz passing through them, but no material change of structure was observed in these at the points of contact. The sandstone of these hills is much coarser in its texture than that forming the shores of the Bay San Pablo and Straits Carquinez, and its fossils exceedingly fragile and imperfect.

Crossing the Alameda and entering the hills in which the Mission of San Jose is situated, a distance of four miles, no change in the general character of the rocks is noticeable, with the exception that the sedimentary rocks have suffered more from disintegration than at any point north of the arryo Alameda, and the contour of the country being such as to retain a large part of the detritus of these rocks, the result has been the production of a soil, throughout the hilly and rolling districts, of almost unequalled richness and fertility.

Following the west side of the Central Range we pass into the county Santa Clara, a short distance south of the Mission San Jose. The sedimentary rocks containing fossils continue to cap the summit of the ridge for the distance of twenty-five miles south of this point, all of which appear to be of the same age as those above described. South of the Hot Springs (a point defining the boundary between the counties Alameda and Santa Clara) the trachytes crop out in two or three localitics, leaving but little room for doubt that the more recent of the volcanic rocks underlie this entire section. At the distance of sixteen miles south of the Spring, the chlorite slate flanks the west base of the ridge, and at short intervals along this distance fragments of these rocks are frequently met; on the Rancho del Palo this rock again occurs at a distance of three miles east of San Jose, here it crops out on the hills three hundred feet above the valley, and appears to have been much disturbed and broken up: immediately west of this an alluminous slate appears dipping southwest and corresponding to the inclination of the chlorites.

In the hills of this district there is considerable quantities of quartz, some of which has proved auriferous.

Traveling parallel with the ridge and south of the Pueblo San Jose, the fossiliferous rocks become less developed, and at the distance of thirteen miles very few sandstones containing fossils were to be seen. In the arroya Caoti the first specimens of scoriaceous lava were met with, this induced a more critical examination of the mountains to the east of the valley than would otherwise have been made. The hills were entered a short distance south of Laguna Seca, and followed thence southerly for eighteen miles. Small patches of fossiliferous rocks are sparingly distributed over the route, the predominating rocks being igneous and composed principally of trachytes and lavas; from Laguna Seca an almost continuous dike of the latter extends along the western base of the ridge for a distance of near twenty miles.

As you approach the Rancho Cantine it becomes more cellular than farther north at any point where it was observed. In the vicinity of Gilroy's it has been used for milling purposes, to which it seems admirably adapted, being unequalled in hardness to the best French Buhr. I saw at Gilroy's three sets of these stones which have been in use at that place for several years in flouring wheat. These stones are capable of being split out to the diameter of four feet and the requisite thickness that may be required for the uses of the mill.

The principal rocks forming the east ridge of the Monte Diablo range, and continuing southeasterly from Gilroy's, are composed of the more recent volcanic series, and are but a part of those above alluded to. At the distance of eight miles from this town, the ridge attains an elevation near three thousand feet, and shoots up into a series of jagged, conical peaks, which maintain this character for sixteen miles south of San Felipe; the pass known as "Pacheco Pass," leading from the Valley Santa Clara to the San Joaquin, is situated among these latter hills and near their northern terminus.

Nine miles northeast from San Filipe is the well known landmark known as "Pacheco's Peak;" it is visible for a long distance from the east, west and south, but not from the north owing to the hills between having a considerable altitude and their close proximity on the principle line of travel; it is formed of trachyte and scoriaceous lavas, and is evidently the remains of an extinct volcano.

The Santa Anna mountains stretch in a south-east direction from San Felipe a distance of twelve miles, and from this point sink gradually into an uneven ridge having an altitude varying from one thousand to fifteen hundred feet, but far more rugged than its equivalent north of the Alameda Creek. The section inclusive from the vicinty of Pacheco's to the extreme southeast part of the Santa Anna mountains, has been one of the grand centres of the more recent volcanic disturbances which has imparted to the mountains their present contour; the greatest amount of local disturbance is confined within a line of distance comprising about eight miles north and south, exerting a considerable elevatory force on the sedimentary rocks of recent date to the west and south-west.

The disturbance among the latter rocks is manifested in a striking manner on the south-east portion of the "Loma Muertas," (a range of hills extending from the south-east part of the Santa Clara Valley across its upper end, dividing this from the Valley San Juan) which extends also to the fossiliferous rocks near the Mission San Juan, they all have a dip to the west, which is continuous for miles.

The Rancho Tres Pinos, eight miles south-west of Santa Anna, may

be said to be the southern terminus of the Valley Santa Clara, though south of the "Loma Muertas" it is called San Juan; at this point it narrows to a cañon and continues thus forty miles to the south-east; after passing the Tres Pinos it becomes rough and irregular, though attaining no great altitude for most of this distance, and from the appearance of the cañada beyond, obtained from an elevation of eight hundred feet, it is probably connected with the Tulare plain some forty miles south, and from its appearance the elevation must be very moderate, as no hills were visible along the axis of the cañon to obstruct the view to a horizon beyond.

The stream that courses this cañada is termed San Benito as far south as the Arroya los Muertas, and eight miles south of the Rancho Tres Pinos, after which it takes the name of San Juan; it discharges its waters into the Pajaro fourteen miles north of the Rancho Santa Anna; the latter river forming the boundary of the counties Santa Clara, Santa Cruz and Monterey.

The pass Santa Anna is situated in the Monte Diablo Range and enters these mountains from the west, two leagues south of the Tres Pinos, and from the cañada San Benito; it was extremely rocky so far as examined though attaining no great altitude, the mean of its course was fifteen degrees north of cast. This cañon appears to have formed the banks of an ancient stream, and it is not improbable that the San Joaquin might have flowed through this section, and discharged its waters into the bay of Monterey; I did not pass through the entire length of the cañon and am therefore unable to form an opinion on this point that would be satisfactory in this particular. The features observed on which this supposition is founded, are that a series of outliers, or rather narrow terraces are traceable for nine or ten miles up the cañada, such as occur on streams whose beds have been drained from successive elevations from subterranean forces. These peculiar features are not uncommon in the more elevated portions of the Sierra Nevada or Coast Mountains, and in the middle and northern parts of the former they may be traced for long distances.

The Monte Diablo Range is connected with the line of mountains which separate the Tulare and Salinas Valleys; and constitute in fact but one range, having their terminus within the thirty-fourth parallel, when they are intercepted by the San Bernardino mountains, which it appears from the U. S. R. R. Survey, pursue a course nearly at right angles to the trend of the former; while the low mountains forming the east border of the Salinas from the Mission San Miguel on the south to the Pajaro River on the north, can be considered nothing but a spur of the Monte Diablo Range.

The principle part is of this spur of granitic and other primitive rocks, on which the tertiaries rest; the granite is first developed in and about the Cinega del Gabilan, this mountain being made up for the most part of these rocks; at the next highest peak twelve miles south of the above known as the Chupedero, the granite passes into a coarse signite much disintegrated and loose on the surface; the signite continues to the cañada Solza a distance of six miles, beyond which it was not examined for twenty miles. It is doubtful if the granite rocks extend to any considerable distance beyond this locality, as the general aspect of the country changes materially after passing this point, and the magnesian rocks begin to be gradually developed.

The mountains were again entered fourteen miles above the canada Solza, and followed for eleven miles, the magnesian rocks were met at short intervals throughout the entire distance. Chlorite and talcose slates with beds of impure serpentine occur, containing actinolite, and in the ravines fragments of chromic iron; at one locality this mineral was found in considerable quantities. No chromic iron was found in place in any of these rocks, but the detached masses in the ravines indicate deposits to a considerable extent.

The Panoches were visible from this point and distant about seven miles, bearing per compass south-east by east, and the entire range of hills intervening leads to the belief that the same class of rocks as those above alluded to, compose the principal rock of this section. This opinion was subsequently corroborated by the results of an exploring party from the Mission San Juan, who were out in search of what had been supposed an argentiferous vein, up the cañada of that San Juan, the ore brought in by this company proved to be an excellent quality of the chromic mineral, containing considerable quantities of the emerald nickel, which is far more valuable than the mineral with which it is associated.

A line from the cañada Solza carried east to the Arroya San Juan terminates at a point four miles north of a sandstone formation lying upon the east declivity of these mountains which contains marine fossils; those that were sufficiently firm for examination were found to be of present existing species of the Pacific Coast, consisting of Mytilus and Cytherea; in one part of these tertairy sandstones some fragments of Purpura were found, which are identical with those on the Arroya Pescadero, county of Santa Clara, and the litteral sea beaches on the Straits Carquinez. This was the only deposit of sedimentary rocks found on this spur of the Monte Diablo Range, and points to a period remote, when the waters of the ocean washed those shores, and furnishes corroborative testimony of the recession of the sea from those places by uplift from volcanic agencies below the surface.

On the west flank of the Gabilan (which is the most prominent peak on this spur) a bed of primitive limestone occurs, extending from the cañada Vergeles on the north nearly to the Sierra Chapadero on the south, a dustance of twelve miles; it was observed on the lower hills of this part of these mountains only, and at no elevation exceeding five hundred feet above the level of the Salinas Plains.

At one locality these rocks have been cut through by two dikes of trap, and also a heavy dike of quartz is found on its eastern edge, which runs parallel with the course of the calcareous rocks; the quartz has cut both the granite and limestone, and *thrown* both to the west, it is heavily charged with iron, and contains in addition the blue and green carbonate of copper with a httle gold. The limestone passes under the Salinas Valley and has a considerable inclination in contact with the intrusive veins above noted; it contains silver and lead (*Argentiferous Galena*) in small veins in several places. As the calcareous formation does not show itself on the opposite side of the valley, opposite this locality, the presumption is that it underlies the plain at a considerable depth, and should it carry those veins throughout which is found upon its surface it is not improbable that valuable deposits of ores may be found within it.

#### SALINAS VALLEY.

This extensive plain will follow as next in order, in the description of its general features, previous to the consideration of the Coast Mountains.

The valley is about ninety miles in length, and has a varying breadth from eight to fourteen miles; it is situated between the Coast Mountains and those denominated the Monte Diablo Range, and is bounded on the east by that spur of this range in which the Gabilan is situated.

The Salinas River flows through this plain from the Cadesal Pass in which it has its rise, to the bay of Monterey. The stream for fifty miles of its course follows the western margin of the valley, and crosses the plain for the first time eight miles south-east of the Mission Solidad, after which it becomes more irregular. Three observations were taken at different points, by which it was estimated that the river had a fall of eighteen inches in one and three-fourths of a mile for seventy miles of its course. The bed of the stream is composed of a loose micaceous sand, derived from the granite rocks to the east, and also from the tertiary rocks on its western border, the latter, however, do not enter largely into its composition.

The plan of the Salinas consists of three terraces running through nearly its entire length, thus making three different positions which the river has occupied since the formation of the valley, and its recession from the eastern to its western border where it at present holds its course. These terraces are very regular in their general outline, and impart to the mind an idea that the plain has a uniform grade for its entire breadth, when the point viewed is one or two miles distant. Commencing on the western side of the valley, the lower terrace is found to occupy a breadth of about four miles, and is composed of a rich alluvium; at this point the second terrace rises abruptly to the height of eleven feet, its average width being nearly that of the former; this is also composed of a similar soil as the first, though not in so fine a state of disintegration, or containing so large an amount of vegetable mould. Both terraces support a dense growth of indigenous grasses and plants, thus furnishing an abundant supply of pasturage for stock of all kinds.

The third and upper terrace rises nearly as abrupt as the second, and has a varying breadth from one to six miles, it is more irregular upon its surface than the two former, and attains a higher grading as it approaches the hills to the east; the irregularities of the surface are not sufficient to produce any sensible effect in destroying that uniformity which a view of four miles will give on any part of the plain, and would not be noticeable except in passing over it.

South of the Alisal Ranch, and situated on this upper terrace, are a series of little elevations that continue at intervals of half a mile or a mile through a distance of twenty-seven miles, on the eastern side of the valley. They are symmetrical in form and rise on every side to heights varying from six to ten feet above the level on which they stand; their surface is smooth and even, covering an area from fifty to one hundred yards square. They appear to be composed of the valley and neither rocks or small stones were to be found on any part of them. The first impression received by the traveler on coming up to them, is that they were the work of art, perhaps thrown up by the aborigines to secure themselves from inundation; but when we consider their extent and number, it will be found rather inconsistent with the habits of these people to erect works of this extent: there are no traditions among the Indians of this part of the country respecting the origin of these singularly formed hills.

The causes of their production must remain a secret which future time alone, and the art of man, will eventually unravel. Their irregular dispersion and general uniformity of character indicates an origin from natural causes than otherwise. though it must be confessed that the agents that are active in producing them are not very apparent.

The upper terrace or "Mesa" of the Salmas, exhibits more distinctly the sources from which the superficial covering of the plan has been derived; the soil is harsh and gravelly, and retains moisture but a short time after the rains cease; it much resembles the soils derived from the granitic rocks of some parts of the mining counties; but notwithstanding the sterile features of this "Mesa," it produces the wild oat in sufficient abundance to furnish extensive grazing land, and in the "Encinals" the natural crop is heavy.

The slopes of the hills on the eastern side produce the same grain, but here it is frequently replaced by the indigenious grasses; these latter do not become so general until after passing above the lumestone range, and these rocks seem to favor in an eminent degree the growth of the cereal to that of the grasses in this section and south beyond the Chupedero; beyond this the grasses form the principle covering of the hills on the east side of the plan to the southern extremity of the range.

The Salinas has an inclination of eight degrees in twelve miles transversely to its course. The line was projected from the Chupedero and carried through the Carmel Mountains to the sea, and connected with another line which was carried through the Monte Diablo Range and cañada San Juan at a distance of two miles south of Los Muertas, thereby obtaining a sectional profile from the western edge of the San Joaquin to the ocean.

The section thus formed will give the following series, and the order in which they occur. First, alluvium of the San Joaquin, tertiary sandstone containing no fossils, and resting on trachytes; 1200 feet on east ridge, the trap rocks are found, same altitude on west ridge, porous and compact lavas, on the west slope 400 feet above the level of the Arroya San Juan, mountain limestone. Valley half a mile in breadth flanked by calcarcous rocks, resting on granite, 1600 feet through to the Chupedero granitic and trapean rocks, 400 feet above Salinas Valley crystatine linestone, valley twelve miles in breadth, ascend one high plateau of sixty-four feet of gravelly alluvium, thence over a high ridge trapean rocks, which are followed by coarse granitic rocks to the sea. The highest ridge is the granitic mountains toward the ocean, and the highest point crossed 2900 feet.

#### FROM POINT PINOS TO THE NACISMIENTO RIVER.

The Coast Mountains extending from Point Pinos, Monterey, to the northern line of Luis Obispo are mostly primitive; the character of the rocks which form the principle basis of these mountains are best observed about Point Pinos and the town of Monterey; they are composed of a coarse-grained but apparently firm granite, having a bluish grey color where the solid masses have been recently fractured. In some places this granite contains imbedded translucent crystals of felspar, (Adularia) in others it is close grained, and contains but little mica, its disintegration forming a fine white saud but little discolored by iron, and from its brilliancy below the surface of the ocean, produces a most pleasing effect on its waters at considerable distance from the shore. The light-house at Point Pinos is constructed of this rock, and from the appearance of the stone when properly dressed, it is highly probable that if the ledges were properly opened, a good material for building purposes may be obtained and in sufficient quantities to supply all the local demands of this country.

The granite shows itself as an underlying rock for four miles into the interior, from the coast, where it becomes covered with the debris of the sedementary rocks resting upon it and alluvium, but there is but little difficulty in tracing its course for forty-five miles easterly of Monterey; it becomes more largely developed after crossing the Carmello and entering the mountains on its southern side.

The trend of the Coast Mountains south of Monterey for fifty miles is south 50 degrees east, while the strike of the granite rocks is at an angle of nearly 18 degrees to the line of trend, or in other words cutting the course of the ridge at an angle of eighteen degrees. The granite rocks at Point Pinos are of the same series as those occurring in the vicinity of the Rancho Piojo, and south of the Estella, thirty miles distant from the latter in a southerly direction; the texture of these rocks in these southern localities is more compact than in the vicinity of Monterey, and in some cases are hornblendic in their character. On the east the granite is flanked by an extensive group of the Serpentine formations, which continue south as far as the Mission San Antonio; they constitute the principle part of a ridge running parallel with the granite, and situated between the latter and the Salinas Valley. The country over which the magnesian rocks predominate is easily distinguished from that in which granitic or trapean group is found, by the vegetation incident to boththe scrpentine hills being generally destitute of the larger forest trees, and covered with a thick "Chamisal" and stunted varieties of the oak; this peculiarity of these hills is very striking, and cannot fail to arrest the attention of the traveler, either among the Coast Mountains or Sierra Nevada, in passing over them. The talcose and chlorits slates of these mountains were found to be auriferous in several localities, and mining to a considerable extent was conducted in some parts of these mountains during the past summer.

The magnesian rocks cross the Nacismiento River fourteen miles above its junction with the Salinas; on the banks of this stream they appear in the form of massive Serpentine, but assume a schistose structure three miles beyond to the south, and at the distance of six miles the chlorite slates abound. These mountains were not followed beyond this point to the south, but it became evident that the trapcan rocks prevailed at the distance of ten or twelve miles farther on, the sharp outline of the higher hills corresponding with those of a similar character observed in other localities.

To the south-east and south-west the mountains were less rugged in their appearance, a considerable extent of a white micaceous granite was found, on which detached masses of sandstone were met with, containing marine shells, also a conglomerate apparently of the same age. The fossiliferous rocks were much disintegrated, and their fossils very imperfect; the species observed were Pectinea and Terredina, and evidently were of the same age as those in the immediate vicinity of Monte Diablo; all the other shells were so imperfect that nothing reliable was to be obtained from their examination, being merely fragmentary in their character.

To return again to the northern part of this range of mountains, and in the vicinity of Monterey, we shall find that the fossiliferous sandstones of this district do not compare in any degree with those above noticed, but, to the contrary, all of the marine fossils of the northern part of the range are found to differ in their character and relative age. On the Carmello this interesting fact may be conveniently observed : the fossils are found in an argilaceous sandstone, about nine feet in thickness, and rests alike on both serpentine and granitic, and has a dip of seven degrees west. It is found at intervels through eleven miles of distance on a course east southeast, and for a breadth of about four miles; this formation, which must be regarded as the *Post Placene* of this country contains imbeded fossils of the genus cancer, with casts of Cytherea, mactra and tellina, all of living species in the adjoining Bay and Bay of Monterey.

From the delicacy of the preservation of these small animals, and the character of the rock in which they are imbedded, it appears evident that it must have been deposited in still water, and was probably an estero into which the tide ebbed and flowed regularly, with sufficient protection to break the violence of the surf upon the coast. After its deposition it had been gradually elevated above the surface of the waters, and subsequently tilted from its horizontal position by the intrusion of igneous rocks in its vicinity.

The cause of its disturbance and inclination is found in the intrusion of a trapean dike which has cut through the granite and clay state, which latter passes into a micaceous schist, and near the contact of the igneous intrusion small but imperfect garnets are found imbeded. The fossiliferous rocks are regularly stratified, and cleave easily in one direction; they are much twisted and contorted nearest the points at which the trapean mass broke through, but become much less curved as the distance increases from that centre. A clay of fine texture and creany color is found resting on the argilaceous sandstone, and covers a large extent of country stretching to the east of Montercy as far as the Toro Hills; this clay is composed almost exclusively of *infusoria*, apparently of marine origin; five distinct species have been observed, four of which are discoid. It is probable that they have been described either by Professor Bayley, of West Point, or Ehrenberg, as both these gentlemen have had opportunities for the examination of the infusorial formations of this State—and until access may be had to their descriptions, it will be impossible to determine this fact. Specimens have been secured for the State collection, and will be described at the earliest opportunity.

My route next followed a northeast direction across the Toro Hills and Cañada; the first range of high hills on the north side of the Carmello, and which divide the Toro from the Carmel valley, have an altitude of about seven hundred feet; they are composed of a coarse sandstone, containing a few indistinct impressions of shells of marine species; an out-crop of trap was observed among the latter rocks, flanked by granite of the same specific character as that found at Point Pinos, and may be seen four miles southwest of the Toro Ranch. On the south side of the valley an extensive bed of calcareous travertine occurs, and also a brecia of the same character, they cover about one nule of area: no limestone rocks were found in situ in this vicinity; the travertine here observed, evidently had its origin from springs highly charged with calcarcous matter, and which were undoubtedly formed in the limestone described on the cast side of the Salinas valley, and which dip under the same as described in the preceding pages. From the intrusion of the more recent volcanic rocks in the immediate vienity of those springs, it is probable they were diverted into another channel, and thus ceased to flow in places in which the calcareous tula is now found. Similar springs now exist a short distance from Santa Cruz, around which the calcareous deposits are very extensive.

Crossing the Toro Valley or Cañada, and following the course of the bay of Monterey, there is little else to be seen than the tertiary rocks for fifty miles, and extending easterly in elevated plateaus and hills for eighteen miles from the coast; among the Channsal hills frequent intrusions of trapean rocks are met, and in nearly every ease where this occurs the granite is also seen broken through by the same igneous intrusions. The sandstone is generally of a buff colour, and yellow-brown, having a greater or less abundance of fossils, in some instances, firm and compact, and again loose and friable; it is almost continuous in a northwest direction, being broken through only by small streams, and is found north of the mission of Santa Cruz, from whence it gradually narrows out, being found immediately on the coast at the base of the mountains.

Beyond this point the principal rocks on the coast are primitive and volcanic, forming sharp, high hills and low mountains with a bold coast line.

#### SANTA CRUZ MOUNTAINS.

These mountains approach the coast a short distance northwest of the Mission and town of Santa Cruz. They extend from the head of the Santa Clara Valley and Pajaro river to Mount Bruno and Presidio Point west of the city of San Francisco; they are separated from the mountain forming the coast line to the northern terminus of the State, by the Golden Gate or entrance to the bay of San Francisco. The greatest altitude attained in these mountains, is the Black Hill, (Loma Prieto or Umhumin,) the latter being the original Indian name applied to this hill.

The entire range is composed, principally of the primitive rocks, among which the serpentine formations play an important part; this suite was traced from near the Rancho La Brae on both flanks of the mountains, to the Francisquito on the cast side, and Anno Nuevo on the west, and belong to the same series as those occuring at Point Lobos and the Presidio. In several instances throughout the range, the trapean rocks have broken through, as detailed of the mountains south of Monterey.

On the west flank of these mountains, and in the central and northern parts of the County of Santa Cruz, there are views of quartz cutting through the serpentine and other rocks in other places; and is particularly observable on the upper portions of the arroyas Sogell, Syant, and Rio San Augustine. The general rule heretofore laid down respecting the contact of these two groups of rocks in this country is found good in the present case. "That when the two series are found in contact, either as dikes of great length, or smaller views, one, or both is *always* auriferous." And such has proved to be the fact in the case before us; from all appearances the quartz has been one of the most recent disturbing agents here, as well as elsewhere.

The mineral characteristics of these mountains will be noticed more in detail when speaking of that subject hereafter.

The south-cast spur of these mountains terminates at the Pajaro River, thirty-six miles east of Santa Cruz, and fourteen from Watsonville. On the southern extremity are found extensive beds of fossils finely preserved. The arrovo Pescadero and la Brae cut their way through these hills, and their beds abound with boulders containing these organic remains. The fossil sandstone at this point rests on the Serpentine and trapean intrusions, being changed in its texture near the points of contact with the latter rocks. On these streams are to be found several bituminous springs, which discharge large quantities of the fluid bitumen, at times covering several acres of ground. The occurrence of these springs has led to the belief that bituminous coal existed in this section, such, I think, is not the fact in the present case, though it might be a tenable supposition in parts of the world where coal measures exist, or where any of the superior groups of the secondary rocks may be found.

The position of these springs, geologically considered, would render it impossible for coal to abound, as they make their appearance among a mass of rocks having an igneous origin, where not even a lignite is likely to exist. There is but a possibility that the tertiary rocks in the vicinity may overlie some members of the secondary group, from which these springs have their origin, but no outcrop or other indications are to be found which will warrant such a conclusion. There is every evidence that the tertiaries above rest on the primitive and volcanic rocks with no intermediate series between them. The origin of bituminous springs is but little understood; in the present state of our knowledge they are found to arise from the newer as well as the older formations, and alone are not reliable evidences of the existence of coal, except when found among the carboulferous rocks.

Following the east flank of the Santa Cruz mountains, we find smallpatches of the tertiary saudstones among the lower portions of the hills, from La Brae to the Llagos Creck; after which they are not again seen for several miles. Near the last named creek, the more recent volcanic rocks make their appearance and continue, at short intervals, for sixteen miles, when we again pass into the primitive formations, which become more metaliferous and particularly in the region about New Almaden in the county of Santa Clara.

North of Almaden, and near the Los Gatos Creek, a bed of recent conglomerate, loose and friable in texture, is found occupying an elevation of four hundred feet above the level of the valley, and having a thickness of about seventy feet, it occurs on both sides of the Los Gatos, and is found, at short intervals, for ten nules, crossing Camels Creek and following its banks for two or three miles; it has been considerably disturbed and large masses have been thrown down. West of McCartyville the mountain limestone occurs in large masses and is continuous for several miles to the west, north and north-west. Extensive operations are now conducted in the manufacture of lime for the market, for which purpose it is admirably adapted. This group of calcareous rocks cannot be less than thirty miles in length from east to west, and has a strike transverse to the line of the mountain range, appearing on the coast at Santa Cruz, at this point it is highly crystaline. These rocks extend north of Camel's Creek about four miles; and a calcareous rock of an amorphous character is found as far north as Sanchez Ranch, in the County of San Francisco. The west flank of the mountains, lying between the San Mateo and a point nearly west of Mission Dolores, was not examined personally, but from the specimens of rocks from that section, which I have seen, their geological characters appear identical with the rocks at the Presidio, which are mostly serpentine.

On Presidio point are to be found beds of a Jaspery rock having a riband-like appearance, and colors from a greenish hue through redbrown to red and yellow; this rock has been considered by Mr. Dana as a variety of the Prasoid rocks, and as he says-"the graduation of prase into jaspery rocks exhibits a close relation of both." These transitions were met with in other parts of the country over which he had travelled. In relation to this subject he further says—"From the transitions that occur, it also appears that the jasper and prase rocks are closely connected with the talcose series, and that the translucent jasper and bloodstones of this section are only different varieties of its condition." The jaspery rocks of San Francisco are worthy of description; the green, red and yellow varieties occur in the same vicinity, they form a series of layers averaging two inches in thickness, and varying from half an inch to four inches; the layers are distinct and separted by open seams, and on the front of bluffs or ledges the rock has a riband-like appearance, the layers coalesce and sub-divide without regularity though uniformly parallel, they are often twisted, and thus change at short intervals from a vertical position to a dip of twenty degrees."

The colors red and yellow are often mingled and sometimes appear as parallel bands; in some instances, the surface is red while the rock is yellow beneath, this may have resulted from the burning of a tree on the spot, for by heat the yellow varieties readily change to red; a small specimen had an agate-like structure as though formed from an aqueous solution. An impure talcose rock occurs at Point Lobos, which extends east for one and a half miles. The works of the "Mountain Lake Water Company" have been carried through a portion of these rocks, and the masses of serpentine that have been elevated to the surface from the depth of one hundred and sixty feet have exhibited an interesting feature in the history of these rocks. It was found, on examination, that the strong odor given off from these stones was composed of free Bromine and Iodine; it is very persistent, and specimens which have been exposed to the air for nearly three months have not lost their odor.

From the Presidio on the bluffs near the bay, slates and sandstones are found in a much disturbed condition from intrusions of trap; the strata are much contorted and twisted, and tilted in every direction, the inclination varying from five degrees to verticality in very short distances. These rocks, as yet, have presented no fossils in the immediate vicinity of the city, but pass into tertiary sandstone, containing organinc remains one mile west of Montgomery Street, San Francisco, where they may be found forming the west point of the North Beach.

South of the city and near Rincon Point, the trachytes appear with small veins of quartz running through them and the adjoining slates; the latter having suffered considerable change in structure near the point of contact with the igneous rocks. Traces of carbonate of copper are observable in this vicinity.

Crossing the Bay of San Francisco from Presidio Point, the rocks on the Saucehto side correspond with the primitive formations above described. The serpentine series continue for several miles up the bay, varying in its mineral characters at short distances. At San Quentin the rocks are schistose, and half a mile beyond, again passes into a massive form, and contains actinolite in fan-like groups of crystals; a mile beyond this, the rock becomes hornblendic, and thence gradually passes into a trap formation, containing well defined crystals of the latter mineral.

On reaching the northern shores of the Bay San Pablo the hills to the north appeared rugged and conical, indicating a preponderance of the volcanic rocks.

The route traveled next, lay through the Counties of Solano and It has been before remarked that the sand-stone on one side of Napa. the Straits Carquinez was identical with that on the other, and the line of dip in both will be found to correspond. These rocks are permeated by minute threads of quartz, and contain considerable quantities of magnetic sand; in some cases the quartz viens acquire a thickness of one or two inches, and have in several instances been found to contain gold, while the sand-stone itself possesses this character in a limited degree; it is contained mechanically in these latter rocks, and in general will be found as a local deposit only. Small quantities of this metal have been found in the stone used for building in San Francisco, which were taken from the quarties in the vicinity of Benecia. It is doubtful whether these rocks would ever warrant mining explorations, except in those locations where the quartz has intruded to a considerable extent. In this case they would prove of sufficient value probably, for mining in the rocks below the sand-stone, and would be governed by the same

natural laws that are found to prevail in other parts of the country in relation to auriferous vems.

These sand-stones are found to extend into the interior in a northwest direction, a distance of about eight miles, when they are succeeded by volcanic rocks of recent date for thirty miles in the same direction; the points of contact in the igneous and sedimentary rocks exhibit distinct and striking marks of change in structure among the latter in many places, and it is not uncommon to find trachytic injections into the sand-stone along the line of coast on the bay and straits.

Where these veins are large, the sandstone in contact is often nearly as hard as the trepan rock itself, a true conchodial fracture, having quite sharp or roughened edges, with a semi-earthy surface, is the result of this metamorphosis. Above this sandstone and resting directly upon it, is a littoral sca-beach, having an elevation of about thirty feet above high tides, and extending for several miles along the coast of the bay. It is composed of fragmentary and entire shells, mixed with a little sand and clay; its thickness varies from one to three feet. Its position is immediately below the alluvium.

It forms a distant white line along the bay coast of San Pablo on its north side for eight miles, and may be seen at the town of Benieia in the vicinity of the sandstone quarries at that place. The shells of which this beach is composed consist of a small species of ostrea, purpura, and other small shells now inhabiting these waters. The elevation of this beach points to a period comparatively recent, when subterranean forces were in operation in elevating the lands adjoining the coasts and bays, which part of our subject will be considered more in detail when reviewing the geological changes which have occurred in the different portions of the coast-line followed.

Among the sandstones of this region is a bed of limestone having an average thickness of two feet; it is found one mile north of the town. This limestone was traced in a northeast direction for two miles, and is probably the same range as observed by Mr. Tyson on the east side of the hills on Suisun Bay.

The foot of the ridge lying between Suisun and Napa Valleys, was followed for twenty miles. At this distance from the bays it attains an altitude of about twelve hundred feet. The rocks composing this ridge are mostly volcanic, with sandstone on their eastern flanks dipping east towards the Sacramento Valley; a few very imperfect casts of marine shells were observed, but none sufficiently perfect for preservation. The ridge on the west border of Napa Valley presents much the same

The ridge on the west border of Napa Valley presents much the same characteristics as those on the east. These two ridges unite about eighteen miles north of Napa City, at which place they become extremely rugged and elevated.

The highest and most conspicuous peak in this range is Mount Helen; its sharply defined outline and truncated summit shows most conclusively its volcanic origin. A section cutting Napa Valley nine miles south of the town was made, and carried across the Sacramento Valley to the foot-hills on its eastern side, by which the grade of both valleys and the altitude of the hills were obtained.

Before reviewing the geological changes that have occurred in the Sierra Nevada, Monte Diablo and Coast Mountains, a view of that part of the great basin separating the Coast Mountains from the Sierras will be given; and in speaking of the Sacramento Valley, that of the San Joaquin will also be included, and the physical characters of both briefly explained.

#### STRUCTURE OF THE VALLEYS OF SACRAMENTO AND SAN JOAQUIN.

These valleys form a "single geographical formation,"* stretching from the terminal spurs of the Cascade Mountains at the north, to the junction of the Sierra Nevada with the southern terminus of the Monte Diablo range with the thirty-fourth parallel of north latitude. The length of the valley is about three hundred and eighty miles in length on an air line, with a breadth of fifty miles at its widest point.

The general appearance of the valley is that of an extended plain composed of alluvium, and this opinion would obtain in the mind of any person whose line of travel should lead him over the lower terraces of the plain, or what is denominated its bottom lands. It is only by making a transverse section of this plain that we should be able to arrive at any correct conclusions of its structure, and peculiarities of its formation; by pursuing this course, very distinctive and marked features are observable of different periods of elevation to which this portion of the country has been subjected subsequent to its emergence above the level of the sca.

To arrive at a correct understanding of the formation of the "California Basin,"⁺ we must first observe the rocks which form its borders, their character, position and relative age; and in doing this it will be necessary to pass beyond either of its margins to ascertain the facts on which an opinion may be founded.

On the east side of the basin and at the distance of fourteen miles from its border, we find the first out-crop of the primitive rocks, (granite) on hills attaining an elevation of about one thousand feet above the sea. Resting upon this, we find detached masses of sand-stone, which increase to a well defined formation a few miles to the west; immediately below the latter a bed of slate makes its appearance, having a dip varying from thirty degrees to nearly a vertical position, but as the lower hills are approached, the inclination of these rocks become much less. Below the slate, a conglomerate having an argelaceous cement is found. firm in its texture, with a dip corresponding to the other rocks with which it is associated; the pebbles composing the conglomerate are quartz, jasper, granite and trap; at times this rock is highly ferruginous. The components of the rock are made up from rocks found in the mountains to the east, and must have been formed subsequent to the appearance of the older trapean formations of this part of the country.

Succeeding the conglomerate, t which by way of distinction, we will denominate *Eocene*, another bed of fissile clay slate and aluminous clay

^{*} Col. J. C Fremont.

[·] Being similar to the London and Paris Basins, this name will be adopted.

[†] Being similar to the London and Faris Dasins, this hand will be user to the same character which ‡ This suite of rocks are often confounded with another group, of the same character which appear of more recent date, and are found south of Consumnes river only.

occurs, having a thickness of about one hundred feet; these rocks comport in position with the other sedimentary rocks above them, and are found resting directly on the granite, and other igneous rocks far into the interior; in the lower hills their structure is fissile, cleaving with ease over considerable surfaces, while in the castern parts of the mountains they have often acquired a crystaline structure from contact with other and more recent volcanic rocks, and such as have broken through and disturbed the primitive formation.

On the western side of the valley or basin, the series do not follow in precisely the same order as occurs on the cast; the sandstone and slate of the same age is found, but the conglomerate is wanting; if it exists, it is completely obscured from view, except on the west slope of the coast mountains towards the sea, and its occurrence there is a reason for the supposition that it does exist below the other stratified rocks on their eastern slope. Above all the others, the miccene rocks are found disturbed and cut through by the recent volcanic intrusions of that period.

The following then will be the arrangement of the rocks from below upward:

EAST OF THE SACR.	MENTO RIVER.	WEST OF THE S.	ACRAMENTO RIVER.
Primary Rocks.	Granite.	Primary Rocks.	Granite.
Sedimentary.	Slates. Conglomcrate. Slates. <i>Sandstone</i> .	Uncertain. <i>Sedimentary.</i> Recent volcanic	Slates. Conglomerate. Sandstone, Eocene. Sandstone Miocene. cuting the latter.

With this arrangement of the stratified rocks which pass under the California Basin, it is obvious, that the waters flowing at the line of junction between the sandstone and the slate-rocks below them, muss pass under the sides and central parts of the valley, varying in depth at the distance from either of its borders increases.

It must be remembered that the dip of the sedimentary rocks on which the alluvium of the valley reposes, will increase or duminish the distance that may be necessary to bore for obtaining water, as the inclination of these rocks is greater or less; and with the view to demonstrate if possible, (or at least approximately) the depth that it might be necessary to sink in order to obtain a plentiful supply of water for agriculture or other purposes, an examination of both borders of the basin was made of fifty miles in length, and the mean of all the dips taken.

It was found by measurement that the surface of the basin rises at the average rate of six feet per mile from the river to either of its borders. Taking the grade of the surface with the lowest average dip of the rocks where they pass under it, (being equal to twelve degrees,) and assuming that the sedimentary rocks decrease in inclination, as the distance increases, which is probably the case, it will be found necessary to reach the depth of 775 feet at the City of Sacramento, in order to obtain a permanent supply of water.

This presumption is based upon the fact that a constant source does not exist above the conglomerate, and this point is selected more for the purpose of exhibiting the greatest probable depth at which a permanent supply of water would be found; the probabilities of obtaining water at much less depths is strong, and amounts to almost a certainty, that water would be found immediately below the sandstone, and above the first slates; in that case the depth would be dimmished about two hundred and fifty feet.

If a correct idea of the inclination of the sedumentary rocks is presented in the diagram, we shall have the following depths at different distances from the centre of the basin, on both sides.

ON THE WEST SIDE OF THE RIVER.	ON THE EAST SIDE OF THE RIVER.
11 miles,	Sacramento City,775 feet. 12 miles,700 " 17 "650 " 20 "625 "

At the distance of twenty miles the rolling hills are entered in which springs usually abound.

The rocks on both sides of the valley are arranged in the order in which they occur, as observed by the outcrop.

Sandstone,			Sandstones and upper Slates,
EOCENE, Slates,	ĺ	Conglomerate, EOCENE.	
Fosil Sandsto Trap,	ne,		Lower clay Slates.
Trap, Granite,			Granite.

These rocks included within the Eccene lines are classed by Mr. Dana, as the early sundstone, slates, and conglomerates, to distinguish them from the more recent tertiaries among the Coast Mountains.

The geological structure of this basin was noticed by Mr. Tyson in 1849. He examined it with a view to ascertain whether a deposit of coal might not exist below the surface; and also whether its structure would indicate the means of supplying water for agricultural and mechanical purposes.

In regard to the first question he says: "The first query is answered by the fact of finding the comparatively recent strata of a formation, not older than the eocene and miocene periods, resting immediately on the metamorphic or hypogene rocks of ancient origin, the remaining members with all the sedimentary rocks of older date being entirely wanting, and the the coal formation, which belongs to the lower of the secondary series." A coal formation under the basin is therefore out of the question, unless deeply seated, and entirely covered, edges and all, by the seducentary rocks above noticed.

The character of the soil in many parts of this valley will render it of little importance as an agricultural district, unless water in ample quantities for irrigation can be obtained. (These remarks apply particularly to the upper terrace of the valley on each side of the river.) And we hope that attention may be called to this very important subject of making the extensive areas of the arid districts of the basin available for market and agricultural purposes."

Experience has demonstrated the almost certainty of obtaining water and in sufficient quantities for agricultural and other purposes, in all valleys resting upon sedimentary formations and having a basin-shaped structure, and where the different beds have a degree of uniformity or regularity in their position, and are of a texture that will admit the free percolation of water through the superior beds and sufficiently firm to prevent its escape in those below.

These conditions are all fulfilled in the basin of the Sacramento, and from the united testimony of different observers, we have ample evidence that the sedimentary formations of one side are the same as those upon the other, with the exception, perhaps, of the conglomerate.

The absence of the conglomerate on the west side of the basin, will not affect the result of obtaining water by the means proposed. The clays and clay-slate, below the sandstone, appear on both sides and are sufficiently impervious and firm to prevent the escape of any water that may rest upon them.*

# REVIEW OF THE GEOLOGICAL CHANGES IN THE COAST MOUNTAINS AND MONTE DIABLO RANGE.

Having briefly detailed the more general characteristics of the geology of the above mountains, it will become necessary to review in a measure the geological changes that have been instrumental in producing the peculiar features noticed in the preceeding pages; in doing this the same lines will be followed as in the outset.

Starting from the Straits of Carquinez, it has been stated that the rocks forming the borders of those Straits and part of the adjoining bays, were composed of a recent sandstone; in following up these in a southerly direction for a few miles, we find the sedimentary rocks thining out, and are succeeded by high hills and low mountains of volcanic rocks, composed of trochytes and other intrusive rocks of recent date. These are followed by the primitive rocks, composed of the older trap, and in the vicinity of Oakland, consist in a great measure of serpentine.

The latter rocks form the western side of this part of the Monco

^{*}Since October last, there have been three Artesian borings, carried to depths within one hundred feet, on the valley of Santa Clara, and in the vicinity of San Jose The result of each has been successful, and a head of water from four to nume feet has been obtained. These indications of water so near the surface and in such quantities, will much enhance the value of agricultural land throughout this valley and render available much that would otherwise have laid unocupied and unimproved for years.

Diablo Range for thirty-five miles, where a district of the recent volcanic rocks is again entered, which continue to the head of the Cañada San Benito and San Juan, for a distance of about eighty miles.

Returning on the Gabilan spur of these mountains, and which form the eastern boundary of the Salinas Plains, the primitive rocks are met with for twenty-eight miles, flanked on the east by the recent igneous rocks of the same age as those appearing at the Santa Anna peaks, twelve miles to the east; (during one of the convulsions that agitated this part of the country, about four hundred feet of the Galiban Peak, on its northeast side, was fractured and thrown down into a deep ravine at its base,) intrusive dikes have had the effect to change the sedimentary rocks when found in contact with the same.

In the Coast Mountains to the west, the granite and serpentine series are predominant, and on these rest the sedimentary rocks, of early and recent date, unchanged generally, except in local position.

Crossing the Pajaro Valley and entering the Santa Cruz Mountains, the main ridge is composed of the granite and serpentine rocks on which rest the fossiliferous formations as those above mentioned. The primitive series extend north into the County of San Francisco, but unlike the formations in the County of Santa Cruz; no tertiaries, containing fossils, are to be found, except in the sandstone forming the point to the west of the North Beach, and here the Pholas and some other shells of present existing species are found. South of the city the trachytes have intruded through the slates, producing considerable disturbance both by uplift and change of structure in the latter; on the north side of the city, similar features are to be seen, but on a more extensive scale; among the deep excavations which have been made about Clark's Point, it is found that the stratified rocks have been tilted from the horizontal position, and in some cases twisted and contorted into every concervable position; at one time presenting a wave-like form, and in the distance of a few yards, passing from this to high angles or verticality.

Northwest of the Telegraph Hill the active causes of this diversity in the appearance of the rocks is seen. Nearly on a line with Dupont street, and fronting the bay, is a dike of the trap rock, passing up through the sedumentary rocks above. A change of structure in the sandstone in contact with the dike is observed.

This class of rocks (the volcanic) occur at frequent intervals along the bay coast on the west side, and thence into the valley of the Santa Clara. At the distance of four miles south of San Jose they form the low hills that protrude into this valley from the western side, and which are continued at intervals to the arroga Llagos, a distance of thirty miles beyond.

In none of the lower hills on this side of the valley are the volcanic rocks found in contact with the sedimentary formations, until after passing the above arroya, and then only after first breaking through fissures in the primitive rocks after reaching the Pescadero.

The intrusion of these rocks among the primitive series is marked by a discoloration of the rock through which the dike has passed, sometumes of several inches in breadth on each side of the volcanic vein; this is more particularly observable where the disturbed rock is of the granite class; in that case it usually presents a brown, or reddish brown color, and is decidedly more given to decomposition than at a short distance from the intrusive material. The slates and sandstones when thus acted upon assume either a sub-crystaline or completely metamorphosed structure, and comport themselves in this particular much in the same manner as similar formations on the west slope of the Sierra Nevada.

The area covered by the metamorphic rocks in the Coast Mountains is not as extensive as those of the mining sections, but the changes, when they do occur, are equally as perfect and complete. The most extensive change of this character noticed among these mountains was that on the Alameda Creek in Sunol Valley, eight miles north-east of the Mission San Jose, and again after crossing this valley on the road to Livermore's. The slates on the creek were changed into a hard, compact rock, for the distance of one mile, and three-fourths of a mile beyond they had assumed a porphyritic character.

Following this series to the right of the road, among the hills which divide Sunol's from Livermore's Valley, the greenstone-trap became largely developed, with basaltic fragments among the drift of the arroyas. On the cast side of Livermore's valley the fossiliferous rocks again made their appearance, and continued south for eight miles, beyond which to the south the mountains were not examined.

The classification of the rocks in these mountains according to their relative ages will follow as next in order.

### CLASSIFICATION OF THE ROCKS OF THE COAST MOUN-TAINS AND MONTE DIABLO RANGE.

Our most northern point in this case will be Bodega Head and a line forty-three miles north of Napa City, and in this case shall avail myself of that part of Mr. Tyson's report on this part of the country, and which is contained in Senate Doc. No 47, 1st Sess. 31st Cong., this being the most northern geological section yet made.

By reference to his section, we find that the primitive rocks occur as far north in the Coast Mountains as the above locality named, and that the rocks of sedimentary origin are found to rest directly on the primitive rocks for a considerable distance east from the coast line.

After reaching eight or nine miles from the coast, the recent volcanic group succeeds the primitive, when the latter is again replaced in the hills bordering the western edge of the basin; from this view of the case it appears that all the rocks of this section are similar in their positions with those detailed farther south.

Commencing with the lowest in order we find :

FIRST.—The granite series and serpentines; on these rest the older sedimentary rocks.

SECOND.—The more recent volcanic rocks. These are more largely distributed through the Monte Diablo Range. They consist of trachytes and lavas, and have protruded through all other formations that preceded them. These rocks form at least three-fourths of the mountain range extending from Point San Pablo to the head of the Cañada San Juan, beyond which the primitive rocks again occur, and continue to the ex treme southern point visited.

THIRD.—THE TERTIARIES. These complete the formations found in these mountains. For convenience of description, this class will be sub-divided into the different periods to which they belong. They will occur as follows:

PERIOD.	GROUP.	WHERE FOUND.
Eocene.	Middle.	Calaveras County, at Murphy's, and other local- ities Bones of extinct animals, &c.
Miocene.		North and south of San Francisco in the Coast and Monte Diablo Mountains Consisting of marine shells with most of the spe- cies extinct.
Pliocene.	Lower.	Coast Mountains and Gabilan Spur. Also in cav- ern deposits in Calaveras County.
Post Pliocene.		Southwest of Monterey. Marine shells, all of existing species.

# POSITION AND RELATION OF THE VOLCANIC ROCKS TO THE TERTIARIES.

Before entering upon a description of the relations of the recent volcanic group with the primitive rocks, it is thought best to examine their positions and effects, among the sedimentary formations, both ancient and modern; in order to elucidate more distinctly the difference in age, of another group of the volcame series, which have been described as having been cotemporaneous with those under consideration, and of which there is some question.

The examination of the Coast Mountains has shown us the fact, that those forces on the west side of the basin, which have been instrumental in elevating the range, have had the effect to produce a series of continuous and nearly parallel ridges, throughout the greatest portion of their length; this peculiarity will force itself upon the observation of the traveler if they are crossed at almost any point transversely to their course.

In many parts of this range, the ridges are narrow, and the declivities steep, and the higher isolated peaks are conical. On the summits of these ridges, there are often to be found nothing but bare volcanic rocks which are mostly of a trachytic character; on the sides of some of the hills, which are less abrupt, are to be met beds of sandstones and at times a few slates which from their nature modify and soften the rugged contour of the surrounding country, by their easy disintegration from natural causes.

The sedimentary rocks, as far as observed in this part of the State, are, without exception, of marine origin—the fossils they contain being of that character exclusively.* In some parts of the country they form beds of considerable thickness, and are rich in organic remains. In some parts of the mountains, the shells are of present existing species, not found upon the coast at the present time; these consist of three or four species of the Arca, and one or two of the Pectinea; these rocks are commonly found resting upon the primitive series, though at times on some of the more recent igneous intrusions. It is considered very doubtful by our conchologists in this part of the world, whether the living shells of the above species now inhabit these waters; and yet these imbeded remains are found in abundance on the summits of our hills, removed many miles inland from the element they formerly inhabited.

The fossils of this part of the Coast Mountains, and which now appear to be extinct, consist of three species of the gryphae, two at least, of Pectinea, Astarte and Cytherea, the species of which will be noticed more in detail in another part of this report.

The position of the miocene rocks in the northern part of these mountains, appears to be directly succeeding the primitive; yet it is found often that they rest upon the trachytes; in all cases that have met my observation, the latter rocks when thus found in contact with the sedimentary group of this period, have broken through fissures in the primitive formations, subsequent to the elevations which occurred during the miocene and middle phocene periods, or perhaps during the deposition of the latter. The trachytic rocks north of Napa, where they leave the sedimentary group, gradually pass into vesicular lavas, and in these sections considerable quantities of obsidian are to be met with; the Indians in the vicinity of Clear Lake use it for the manufacture of their arrow-heads.

Again, on the shores of Suisun and San Pablo bays, and on the Straits Carquinez, these igneous rocks are found injected into the seams of the sandstone, contorting the strata to a considerable degree. West of these bays the primitive rocks occur at intervals for several miles, and the fossiliferous rocks are found holding the same position as those further north. These alternate intrusions of the trachytic rocks continue south among the mountains on the east side of the Bay San Francisco, and for thirty-tive miles beyond its southern extremity; after this they pass into porus lava, and compact masses, ceasing to present any traces of fossiliferous deposits resting upon them for forty miles on this western ridge; after this they again (the fossiliferous) make their appearance in small detached masses, which gradually increase to a well defined formation beyond.

These rocks in many instances are found to rest upon the recent volcanic series direct, and in these cases we find, as may be expected, a corresponding change in their structure, often to an extent that has obliterated every trace of organic remains; while in other cases, where the fossiliferous group has been protected from the more direct influence of the later igneous series by the intervention of any of the primitive

^{*} The lacustrine deposits discovered during the past summer by Mr. W. P. Blake, on the desert of the Colorado are the first fresh-water formations found in this country.

formation, the fossils remain very entire and no change in structure is observable, except where the trachitic masses have broken through both.

Among the hills south of Monterey, other evidences of recent elevation from the intrusion of recent igneous rocks are found; and these occur among that group of sedimentary formations which have been denominated as the post Pliocene; (see Table,) these are found on the Carmello Creek, three miles above Meadow's Ranch, where the fine grained sandstone, containing impressions of existing crustacea are found resting upon the granite, but tilted from their former horizontal position by intrusion of recent trap rocks from beneath. This same feature is noticeable north of Monterey, and into the Santa Cruz Mountains, where the marine formations of the Pliocene period are found elevated to different heights above the sea, for nules interior from the present coast With these facts before us, it will be impossible to arrive at any line. other conclusion than that the volcanic series of which we have been speaking, has been continued into a period comparatively recent, and was the active agent in producing those disturbances so manifest throughthroughout those portions of these mountains under our consideration.

An interesting feature in the geology of the eastern part of the Monte Diablo range has been developed during the past season, by the officers of the United States Land Survey, which is worthy of note, as illustrating the mutations which have been going on in different parts of the country, and has served also to fix the age of districts hundreds of miles remote from each other; the marine shells brought into the Survey office by Mr. Von Schmidtz, f om the hills bordering the west side of the Tulare Lake are found to be indentical with those obtained from the Buttes on the Sacramento Valley; among the fossils are found the Arca, of which there are three species, with two species of Cardium, differing from any found in our waters at the present time.

The surveys of the United States Rail Road Exploring Expedition, under command of Lieutenant Stoneman and Williamson, on the desert of the Colorado has been the means of cliciting much valuable information of that almost unknown and desert waste. The personal and attentive examinations of Mr. W. P. Blake, geologist of the exploring party has opened a new field for investigation in addition to those already existing in other parts of the State. The old water line of the Gulf of California has been traced with unerring certainty for a long distance into the interior, and the fossil remains of marine animals and shells are found promiscuously mingled with those of fresh-water origin, which subsequently occupied the place where the waters of the Pacific formerly held undisputed sway. The discovery and demonstrations of those interesting changes in the elevation of the interior of this part of the State above the level of the sea, with its recession from natural causes, reflects much credit on the discrimination, and careful judgment of Mr. Blake, and must be regarded as a great acquisition to our very limited stock of knowledge respecting the absolute condition of that extensive portion of the interior. Among all those who have preceded him in crossing this "Jornada" at different points, not a word of information has been elicited from which not even a probability of its true condition could be gleaned; until the present time it was a blank in the geological history of this part of our continent; how

far beyond the line of travel to the east, of where this expedition left it, it may extend, is equally as uncertain as was that portion of the ancient sea-beach, and bottom, over which the United States exploring party traveled the past season. The facts which have been gleaned from this interesting region will appear in the forthcoming report of the expedition, and from what little is now known of their operations, the parties in charge of its several departments have manifested a determination of purpose and assiduity in collating rehable testimony of this hitherto unexplored and unknown waste.

Our present information of this remote section of the State, exhibits in a still stronger light, the mutations to which the surface of the country has been subjected, and which are probably persistent at the present time; to what period the changes of this district are particularly referable will not be known probably until the following year, but enough has already been developed which leads to the inference that the sea has receded since the commencement of the tertiary era.

## VOLCANIC ROCKS PRECEDING THE TERTLARY ERA.

On a preceding page it was observed that a suite of rocks which are often confounded with the recent volcanic group, existed in the Coast Mountains, these rocks and their peculiar position will be noticed at the present time.

Following the west side of the Valley of Santa Clara, from the arroya Francisquito in a southerly direction, a range of low hills, generally barren in their appearance, is found, which protrude themselves into the valley nearly at right angles to its course. The range of hills were examined for the distance of forty miles, and in no instance, I believe, was there a trace of any one of the sedumentary formations to be found upon them. In this particular they differ much from the other volcanic series, either north or south of them, with the exception of those of the Santa Anna range.

Their naked and rugged aspect on the west side of these hills with their peculiar local position leaves but little room for doubt, but that they are the remains of the summit of ancient craters, elevated above the surface of the then existing sea, prior to the deposition of the marine formations which occur in other parts of the mountain range.

This suite of rocks have evidently found their way to the surface through the primitive rocks of this district, as it is found that they cut the latter in several places in the form of dikes, while the debris of both are found to enter largely into the components of the valley in which they are situated. Another evidence, which lends confirmation to this belief, is the fact, that had the emergence occurred at any time subsequent to the tertiary era, we should have seen *some* traces of such a fact in the elevation of those rocks of aqueous origin. The gradiency of the entire northern portion of the valley Santa Clara will also be found incommensurate with such an extensive series of disturbance as must have occurred at the period when these hills were elevated above the surface. The narrow limits within which they are situated, would have received an inclination much greater than that which the surface now presents, had their intrusion corresponded with those of a similar character found among the sedimentary rocks on every side of them. Our evidence that these rocks hold an age anterior to the tertiaries, rests in part on this fact; that if the change of position, which the latter rocks have suffered in adjoining districts bear any testimony of the maximum of disturbance among them, we should find *some* corresponding changes of similar character had this volcanic group been of the same age.

In all other parts of the coast mountains, wherever volcanic rocks occur, in masses or dikes, cutting either sedumentary or primitive groups, the evidences of uplift are conspicuous, and either a high uniform grade, distinct undulations, or a terraced form of the valley sections, mark the extent and character of the forces exerted over such areas: while in the case before us, we find the valley adjoining these igneous outbursts maintaining its level to the very base of these volcanic hills. Were there any differences observable in the inclination of the surface of the plain, taken from its northern to its extreme southern point, there would be some reason to suppose that the group under consideration was more recent than the tertiary cra.

Passing to the west of these hills, we find the same undisturbed condition of the surface, extending to the base of the Santa Cruz, and you meet with nothing that would in the least indicate any subsequent alteration in the general level until you reach their eastern base; and here, for the first time, a narrow terrace is found, its face rising rather abruptly for twelve feet, and then very gradually for eight feet more, being nearly level from thence to the mountains, a distance of one-fourth of a mile. So little disturbance is manifest in the half formed conglomerate, of which it is formed, that it must be looked upon as having been gradually elevated by forces that have acted equally, and at the same time, on both the older igneous, and recent formations of this section, and the forces that thus gradually operated in producing these phenomena are unquestionably persistent at the present time.

#### MOST RECENT VOLCANIC ROCKS OF THE COAST MOUNTAINS.

Under this head, a brief description of a class of rocks differing essentially in relative position, lithological character, and general effects on the surrounding country in which they are situated, from those noticed in the preceding chapter, will be given. The section of the country though which they may be observed, has been stated to extend through about forty miles in length of the Monte Diablo Range, and make their appearance in the Santa Anna Picaches, on the south-east border of the Santa Clara valley.

In examining this group it was found, that they consisted principally of compact and vessicular lavas, having different degrees of firmness and texture.

A conspicuous and striking feature of these rocks is found in their connection with other formations, both igneous and sedimentary, and in the case of the latter class they are seen to have acted directly upon them, elevating the same to different altitudes above the sea level. The

former rocks form the principal ridge, separating the Pass of Pachco from that of Santa Anna Pass, (or Cañada Las Muertas), and present a very rugged and conical outline at a short distance. They were probably the grand centre of those recent volcanic disturbances that were in action during the elevation of this part of that mountain range. The higher peaks are composed of trachytic masses, while the lower hills contain immense quantities of the vesicular lavas above noted; from the position which the latter occupy to the former, it appears that during the later periods, when these fires were in action, fissures had been formed in the sides of the two principal craters, through which has flowed large quantities of the fluid masses: one of these dikes cannot be less than eight miles in length and ran in a northerly direction.

At the Santa Anna peaks, the principal crater has, apparently, fallen in during some period of its eruption, and subsequent to this, a large fissure has been formed, probably from the effects of an eaarthquake, and, perhaps, at the time when the north side of the Gabilan was precipitated into the deep ravine at its base.

North of the latter mountains at the distance of eight or nine miles, is the elevated peak known as "Pacheco Peak," which is a true volcame cone, and in the ravines to the north of this erater, the Indians of this section of the country obtain absidian for the manufacture of their arrow heads; to the north-east of the mountain a large dike of lava, similar to that noticed above is found, which appears to have flowed through a fissure very nearly down to the base.

South of the Santa Anna, the tertiary sandstones of recent date appear, resting directly on this class of volcanic rocks, and bear every evidence of having suffered their principal disturbance from these agencies; the almost complete metamorphosis of the sedimentary group is a proof of this; and the evidences of comparative recent action is found in the fact, that the organic remains found imbedded in these rocks contain a large per centage of present existing species on the coast.

It will be apparent that a difference in the age of that group found in the preceding chapter, and the one under consideration will be manifest, from the fact that in the present case the most recent of the aqueous rocks have been disturbed and clevated since their formation, while in the former group of igneous origin, no features of this character are observable. The vesicular character of the group under consideration and the trapean character of the others, is also a distinctive point that would place each in a different period as regards their age; the older group have every appearance of what has been termed the "primitive trapean rocks" found in some parts of the Sierra Nevada, and which could not have held an age but little posterior to the older rocks of the Eocene, as they are found not to have disturbed the middle group of that period.

The tertiary groups of the Coast Mountains consist of the miocene, phocene, and post-phocene periods; the cocene rocks being entirely absent as far as yet examined; it is also found that the miocene rocks do not extend on the coast line beyond a point sixteen miles north of Santa Cruz, and that south of this point the phocene series predominate. This fact then once established affords a clue by which we are able to determine to a certain extent the age of the volcanic series which has disturbed them, and fixes that age posterior to the formation of the latest of the groups.

#### CHANGES OF LEVEL AND RIVER TERRACES.

The valley sections of this State present a general uniformity of character in their superficial structure, wherever found; their surfaces are distinctly marked by a regular series of minor elevations, which give them the terraced form so peculiar to those sections. The face of these terraces are of different heights, and the surface of each is found to have a gentle inclination toward the streams that flow through them. In some parts of the "great valley" there are to be seen a range of hills having flat summits, which on examination are proved to have been the shores of an inland sea; these usually arise from the higher portions of the upper terraces, and where they are found near the borders of the plain, they present often trifling evidences of excessive subterranean action. These "tables" when found on the immediate borders of the plans, do not appear to have participated in the more violent disturbing forces found in the interior; they are usually from four to five hundred feet in height, while those farther to the east attain an altitude frequently of more than two thousand.

Immediately succeeding these, the first terraces of the valleys appear, and from the observations of different travelers, we learn that they are continuous into the 'Territory of Oregon, and probably beyond that point; while south of California their existence is known to the northern boundary of the Province of Sinaloa in the Republic of Mexico. In these we see the evidences of gradual and probably persistent elevation over an extent of country nearly two thousand miles in length, and in the present state of our knowledge, must be regarded as part of one of those great continental elevations that has occurred during the comparatively recent history of the world. Thus State is situated nearly in the centre of this line, and from its position must partake to a greater or less extent in all the general changes of level that may occur on either side of it; and all observations which have been made within the last ten years have only tended to confirm this fact.

Mr. Dana who has given more attention to the formations of the valley sections of the Pacific Coast, and who probably had better opportunities for observation from San Francisco to the north, in speaking of them, says: "We traced these terraces from the Cowhtz to the mouth of the Sacramento, along many of the smaller streams as well as the rivers. There appears to be but two ways of accounting for these terraces, either lakes have existed along the rivers, which have burst their barriers, or the rivers have excavated the country in consequence of an elevation. The existence of lakes throughout a whole country, connected with all its rivers, is highly improbable, and requires for its proof the strongest evidence. Rivers cut out their channels by a gradual process, as a country is raised above the ocean, forming with few exception a complete drainage for the land. Lakes could not exist, therefore, to the universal extent implied by the facts, except, perhaps, as a sudden rise of the land from the ocean.

"The formation of such lakes by an abrupt elevation in a region having the ranges of heights parallel with the coast, is certainly a possibility. But the water to make the alluvial accumulations, must be running water, and be in operation in its channels a long period. And how long would such lakes exist after an elevation? If the violence attending **a** change of level did not open for them at once a passage, the accumulation of water during a single flood would break a passage through such soft sandstone beds as occur at the mouth of the Sacramento."

These terraces occur on the Sacramento to the distance of one hundred and fifty miles from the sea and at this point they were as high above the level of the river as at any point lower down, and have nearly the same elevation in all parts examined above the existing level of the stream.

The flats are several miles in width, and until reaching Carquinez Straits, no other place for a barrier could have existed. In this place a permanent barrier of at least four hundred feet in height would have been required, to set the water back so as to cover the upper terrace one hundred and fifty miles above the mouth of the river, and in the second place, the lake should have a surface slope like the present bed of the river, for this is the fact with the land of the terrace—of course an impossibility. Wherever the bed of the stream was four hundred feet above the level of the sea, there the terrace should disappear; in place of which they attain an altitude of seven hundred feet at the distance of two hundred and twelve miles from the head of Suisun Bay.*

It is therefore impossible that one or many lakes should accomplish the results we have before us: it is the proper effect of river floods, and the terraces must be received as indicating a change of level in the country.

Was this change of level an abrupt one, or was it slow and gradual? This seems at first, a question easily answered. We may best understand it by considering the changes that would take place during the elevation of a region of alluvial flats. If a country rise abruptly, the river will commence to work itself to a lower level, and proceed with rapidity, ending finally the very gradual slope of ordinary rivers, having a descent of one or two feet per mile. At the same time, in the season of floods the river would wear into the former alluvium (now its banks) and widen its surface; and this widening would go on at each succeeding freshet till the river had a new lower plain on its borders.

But would not the effect be the same during a gradual rise. As the country rose slowly, the excavation of the rivers bed, and latteral widening during freshets would go on gradually with the same results, producing a deeper bed and a new lower flat, both of which would change as the change of level progressed, and in case the lower flat resisted removal in any part, the portion left standing would form a subordinate

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^{*} I have in my possession at this time, specimens from this highest torrace, which is found on Weaver Creek, Trunty County They were taken from different depths of a shaft which has been sunk through the alluvial deposit *eight hundred fet*; the different strata found though are composed of elay, gravel and sand, in nearly all of which, gold has been found throughout.

terrace between the upper level, or that of the plain before the rise began.

A terrace slope may thus be formed by a gradual elevation, and also without any intermission in the process, there might be intermediate terraces in some parts of the same region. A river terrace then, in an alluvial district cannot be considered an evidence of abrupt elevation of country in which it is found, the more especially if a uniform slope is found upon its surface.

The district south of San Francisco in which extensive valleys are to be found comport themselves in all general features with those found on the Sacramento and thence into Oregon. On the south part of the Santa Clara Valley, beyond the ranch of Cruz Cervantes, the terraced form of the valley is clear and distinct; in this place there were but two of these flats observable—that through which the San Benito flowed, had a rise of 'nine feet above the level of the creek, while the higher terrace to the east rose very abruptly eighty-five feet above the former. The surface level had an inclination of twelve degrees from the base of the Santa Anna Mountains towards the west; the river flowed upon the western side of the valley entirely.

Two successive terraces were found on the Pajaro, the upper one still retains the marks of tide water upon its surface.

The Salinas Valley exhibits the terraced form in a marked degree, and its inclination of surface from the cast toward the west corresponds very closely with that just noticed as occurring on the south part of the Santa Clara and San Juan. The number of terraces on this valley are three, and have a varying width of three to five miles, the slope of each surface is gentle and s nooth throughout the entire length of the plain. It differs from the Sacramento or San Joaquin in having but one line of inclination or dip, the others have a dip from each border toward their centre, thus giving them their basin shaped structure. The slope of the Salinas appears to have been acquired from the recent volcanic agency that formed the Santa Anna Mountains, and those to the north as far as Pacheco's Peak; on examination it is found that the dip of all the sedimentary or stratified rocks of this part of the country correspond in direction, and that the dip decreases as the distance from that centre increases. The Post Phocene rocks of the Carmello were disturbed at this time, and the entire range of sedimentary rocks of recent date, throughout the Coast Mountains in this section of the country have suffered in a similar man ier, and undoubtedly from the same cause.

From the peculiar features manifested in the formation composing the Coast Mountains, as noted in the preceding pages, and the more recent causes of disturbance which have acted in this part of the range, as is found in the modifications of level extending through the valleys above noted, and the intervening mountains between these valleys; it will appear very doubtful that any formation containing mineral coal will be found. The forces that have acted on this part of the country and have elevated the different rocks found on the mountain sides, have as yet developed no member of the secondary series, in which the coal formations are found; but like the mountains to the north, both in the Sierra Nevada and Coast Mountains, nothing above the primitive is to be seen, except the tertiaries, in which no coal beds of extent have yet been discovered.

From a careful examination of this part of the country, with this object in view, I feel no hesitation in saying that coal will not be found in any part of the Coast Mountains south of the thirty-fifth parallel of north latitude; what there may be south of this point, I know nothing having never visited it.

It is not unfrequent in passing over the country to hear of *beds of mineral coal;* during the past season I have visited four such localities, and, as was anticipated, each of them proved to be merely small beds of lignite, and two of them hardly deserving that name. One of these deposits proved to be but a bed of leaves, having a thickness of about three inches, resting upon a tertiary sandstone containing marine shells, and covered with twelve feet of a sandy alluvium. This is one of those coal beds which has figured so largely in the public prints of the State during the past year, and has induced several gentlemen to pay the locality a visit, and to return as deeply disappointed as their previous anticipations were elevated.

The report of coal veins in the Coast Mountains must be received with many grains of allowance, and at the best, none but tertiary deposits will be found, and these, even should they exist, would be capable of supplying but a limited demand, and that usually of an inferior quality.

#### SOILS OF THE VALLEY SANTA ( LARA AND SHORES OF THE BAY SAN FRANCISCO.

The character of mountains on the borders of valleys, afford a good criterion to judge of the capabilities of the soils found at their base. It is therefore not difficult to form a correct opinion of the constituents of a soil, once knowing the nature of the rocks in adjoining sections, and consequently their adaptation to the various purposes of agriculture.

The more rapid disintegration of some classes of rocks compared to others, will form a striking feature in the productiveness of the soil with which they enter as a component part, their chemical constituents, adapting them to agricultural employment, or rendering them totally unfit for these purposes, without the addition of some agent not found as an integral of their composition. It is therefore not surprising that in passing over a range of valley, or mountainous district, to find so many and diversified features presenting themselves often in adjoining localities; it is not unfrequent to find a perfect transition in the indigenous productions of the soil, occurring in the distance of a few hundred yards.

These peculiar features are best exhibited among the native grains and grasses, and occur alike, on the valley bottoms or on ascending a hillside. Thus, on ascending a hill, at whose base may be found a calcareous rock, resting on any one of the plutonic series, the native product at the base, and within the direct range of the limestone, may be the wild oat, almost as soon as these rocks are passed, and you enter the granite or trapean group, the cereal ceases to grow, and is replaced by the native grasses in some of their varieties, or if the rocks succeeding

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the former, should belong to the serpentine group, a uscless shrub will often be the resulting growth.

Equally as perfect and marked are the phases presented on the valley bottoms alone; passing through the same transitions as above, and on an examination of the sources from which the soil has been derived, it will be found that the mineral constituents of both sections presenting those changes, will differ in a material degree. Take the upper terrace of any one of our large valleys, and by following this to a lower terrace, the first principal change occurring will be found near the junction of the former, with the latter, and this as it recedes from the former, will be found productive of a widely different and greater variety of plants than the hill-side or upper terrace preceding it, and the native productions of these, not unfrequently disappear entirely.

Another feature equally interesting and instructive, is found in transitions of the varieties of production on the same line of valley, which has derived its soils from the same suite of rocks, this might easily be mistaken for a change in the mineral constituents of such soil, which is not the case, but the modification of growths in this instance are attributable to the more uniform and equal distribution and communication of the material composing the soil, thus rendering its chemical constituents better adapted to assimilation, and the consequent production of variety as well as quality and quantity.

The soils on the Bay San Francisco differ much on its eastern and western sides; both borders of the Bay present the tertiary series, but both do not present the trapean rocks to the same degree of development; this, then, of course, will cause a distinctive and marked difference in the productive capabilities of either shore. It will be found that in all the soils which have been derived, in whole, or in part, from rocks more recent than the tertiary group, that a more extensive and varied adaptation to agricultural purposes will be present; this will be particularly manifest in those sections where the tertiaries, containing organic remains, enter somewhat largely into the components of the soil produced from such sources.

We often meet an extensive and even tract of country lying at the base of a range of hills of the character named above, which are found not to possess so high a degree of fertility as an adjoining section, yet both have derived their soil from the same sources; it becomes not only interesting but important to ascertain the cause of such a discrepancy, and an attentive examination will often point out a natural obstruction of a mechanical nature which has thus been the cause of the impoverishment which may be present. In this case a barrier will often be found among the foothills which has prevented the uniform distribution of the disintegrated rocks above, rendering the plain within its line less productive, rather than the introduction of any new agent, except, perhaps, that derived from the rocks forming that barrier, the amount of which would be inconsiderable, compared to the mass of alluvium beyond.

In illustration of this a single case only will be mentioned. On the Valley Santa Clara a few miles east of San Jose, the mountains are capped with fossiliferous sandstone for miles in extent, north and south.— On examining the slopes of these hills and the broad ravines among them, a rich and deep soil was found to cover the whole, and the vegetation growing upon them bore a just relation to the character of the ground on which they flourished. Passing to the westward toward the valley it was found that the same character of soil continued to the first hills rising from the plain, these bearing an altitude of one hundred feet above its level. On reaching the summit of these hills, the rich, mellow soil to the east instantly gave out, and muts place a heavy, clayey covering was found upon the surface for a considerable distance into the valley; this transition occurred within so short a distance that I was led to examine more particularly the cause producing it, and accordingly followed the line of these hills until an outcrop of these rocks were found ; they consisted of aluminous and chloritic slates, having a high inclination and dopping to the west; from their position they presented a perfect barrier to the passage of the richer soil of the hills passing on to the valley in any other junction than north and south. As far as this line of slates extended, the valley beyond partook, in a greater or less degree, of the character that would be produced by their disintegration, and ill adapted generally to purposes of agriculture unless by artificial application of reclaiming agents and tillage. As soon as the slates began to disappear in the foothills, the character of the soil on the plain beyond assumed a different appearance, and a marked and corresponding change in its vegetable productions.

A mechanical unpediment simply is the cause of unproductiveness in such cases, and in instances of this kind, the remedy usually abounds in abundant quantities and at short distances from the points where it may be required.

On the south-east shores of the Bay San Francisco, there are large areas of land that at the present time are considered useless for agricultural purposes, from their low position and semi-argulaceous character; they have often been denominated "mud flats," and heretofore have been considered unadapted even to grazing for sheep. These flats generally extend (toward the bay) one or two miles from what are considered available and good agricultural lands. Their general appearance to the passer-by is such as would not be likely to impress a person very strongly in their favor, as lands retaining much fertility, but from their superficial appearance would be regarded as a poor representation only of a salt meadow, productive of little else than the common samphire. But such is not the fact and if experience and experiment have any value or weight, they will be thrown in the balance to the favor of those lands; experiments have been made during the past season on these sections, which cannot fail to convince us of the fact, that the opinions heretofore entertained respecting the available character of a large portion of these districts, are entirely erroneous. A single experiment illustrating their capacity for production if properly tilled, will be given. Near Uniontown, in the County of Alameda, several acres of land,

Near Uniontown, in the County of Alameda, several acres of land, producing the *samphire* on their flats, was broken up and planted to corn; in one case it was sowed in drills; the corn continued to flourish until September which was the last time I saw it; and at this time the stalk of that in the drills had acquired an average heighth of about mme feet. On the south side of the arroya Alameda another field was planted in hills, which  $v \to$  equal, if not superior in heighth. The soil, when broken up, is fich and highly productive in other grains, notwithstanding the meagre appearance it presents prior to tillage, and will in a few years be as successfully and largely cultivated as any other of the valley sections. The *solice lands* of the interior sections are also of the same character, to a certain extent, and if properly tilled are equally productive. Near the rancho San Felipe, Santa Chara County, a similar circumstance was net with; the corn grown upon these lands was being harvested in September and produced a full and well-formed car, proving not only adaptation of soil, but climate—for the production of this staple in California. The latter case, the lands were 225 feet above the sea, and the field on every side except the south-cast was covered with a thick growth of the salt grasses and other kindred plants (samphire) and when free from water the lands were covered with a saline incrustation.

Under a proper course of treatment these lands will be made available for the purposes of the agriculturalist, and our already large domain of arable lands thus much increased. The situation of these lands in the interior is such, that they may be easily reclaimed should they ever fall within the jurisduction of the State, which undoubtedly they will under the law regulating "saline lands." In the counties of San Francisco, Santa Clara and Alameda the wet land that may be made available by dramage is about seventy square inites, exclusive of the "saline lands" at the southern part of the County of Santa Clara.

Most of the valley sections of this range of country is arable land, and that which is not can easily be made so when required; the agents for bringing this about being found in the adjoining hills to the east.— The character of the soil and climate adapts it to all the productions of temperate climates, and where local position modifies the climate of any section, it is found capable of producing plants of the tropical latitudes.

The extreme south-eastern part of this valley would be adapted to the growth of foreign fruits and other products, but it must be beyond the influence of the cold sea-wind that passes inland across the range of lower hills which divide the Salinas, Pajaro, and Santa Clara Valleys, the effect of which would be to blight the fruit, though the plant or tree might continue to thrive.

The low hills that flank the east side of the valley contain all the elements required for the culture of tropical plants and fruits; the climate and soil will be tound adapted, and the only agent that appears in the least to be wanting is water sufficient to supply the demands of those plants. From the appearance of small lagoous and rivulets at different elevations it is presumable that a sufficient quantity of this agent may be found a short distance below the surface.

As a general rule the mountains lying upon the east border of the valley Santa Clara are covered with a soil superior to that of the plains, and of much greater depth. I have measured the depths of these soils in many places, and where it is well developed have found it varying from four to cleven feet for miles continuous; its extreme fertility produces heavy crops of the native grains and grasses which annually contribute to its increase by their decomposition.

Although these lands are situated within the reach of the sea-breeze from the Bay of San Francisco, they are protected from its cold by the slope of the hills and the modifications of its temperature acquired in its passage down the bay before reaching the northern portion of the valley. So much is the temperature increased that an addition of ten degrees is often acquired in its transit from San Francisco to the head of the valley, a distance hitle rising fifty miles. This increase of temperature in the air is accompanied with an increase in its capacity for moisture, hence it is usual to find a slight aqueous haze, which results from the condensation of its moisture, hanging about this entire range of hills during the summer months, and is usually seen early in the morning.

At this time and for a short time after sun-rise the leaves of plants in these hills are covered with moisture, when no trace of this deposit is observable on the plains. The foreign horticulturist seems to have siezed upon the natural advantages which these mountains present for the culture of the vine and other fruits, prefering these elevated situations to the lower plain lands, the climate and soil being more congenial to their growth. The altitude at which the first qualities of the grape will flourish in these mountains (Monte Diablo Range) is seventeen hundred feet above the sea, the fruit produced equals that grown in lower situations; the temperature at this elevation through the night is higher than on the plains at their base and sufficiently comfortable to sleep without shelter.

But a very few years will clapse before these "barren" mountains will yield a handsome income to the planter, and a large revenue to the State, from the taxable property that will be found in these mountains, arising from the prodution of the vine alone; some idea of the extent to which it is now being propagated may be obtained when it is stated that nearly two hundred thousand sets have been put into the ground during the past year, and on one ranch alone over twelve thousand new sets were placed in the ground last season, in addition to those already in bearing condition on the same farm.

The absence of timber in these mountains is one of the most serious objections to the settler, if this objection can be removed there is no reason to doubt but that large tracts of this fertile distinct would command a population that would soon approximate that on the plans. It would not be difficult to produce a forest growth of trees upon these mountains, one that would prove useful as well as ornamental, conducing to health, comfort and luxury, as well as profit. The history of the Guava furnishes us with some facts on this point that are well worthy of notice; the tree is of rapid growth, spreading itself over large distincts in a very few years. In Mexico it attains a height of forty feet, and grows at elevations of five thousand feet; its wood is used for fuel and many other purposes, and from its fruit the guava jelly is manufactured, and forms an extensive article of commerce.

Fifty years ago this tree was introduced at the Sandwich and Society Islands; it has in that short period of time formed one of the principal forest trees of those islands, and reaches the summit of their highest hills. A tree of this kind introduced into our timberless hills would in a short time render the barren aspect they now present, more pleasing and profitable as well as useful. There can be but little doubt that this tree will flourish in this country, as it is found so to do in a chimate equally cool as that in which it would be required here. Other varieties of fruit bearing trees of foreign elimates will flourish in these mountain; among them may be mentioned the date, prune and fig, and in this country we possess an advantage in the preparation of the two latter fruits for the market, which is seldo n found even in countries where they flourish best, viz: a clear, dry air, or containing but a small degree of moisture, a most essential requisite in forming a good commercial article. Often the entire fruit crop is ruined in the drying process in countries where these fruits abound, (and where all conditions for their propagation are not more fully developed than in this country.) from the presence of too great a quantity of moisture in the air, a circumstance that cannot exist in this country south of the country of San Francisco.

We have the most ample proofs of the capabilities of our soils in the interior, in the production of the foreign fruits. In addition to the above, the olive and the almond flourish and produce plentifully, and though the latter is not indigenous, the luxuriance with which it grows and its plentiful production of fruit, must be received only as another evidence of the fact above stated. The value of these fruits as regards their quality, suffers no deterioration from having been naturalized to our climate, but in the case of the latter named fruit, it is found to be materially benefitted by the change, for as it loses none of its flavor it becomes the more valuable from its increase of size, being nearly double that of the ordinary fruit of the market.

Respecting the main body of lands on the valley and shores of the bay, but very little of which is not adapted to agricultural purposes, it may be said to cover an area little short of six hundred square miles, nearly all of which is well adapted to the cultivation of the cereals and root crops. The higher table of the valley produces excellent corn, and the season though dry permuts this crop to mature well. I observed several corn fields on the high terrace of the valley last season, flourishing well at altitudes of three hundred and sixty to four hundred and ten feet, and in localities where it would hardly be supposed from its external appearance, that moisture sufficient to rear a blade of grass could be found. The cause of this productivness in these localities, is • in a great measure attributable to the existence of a small quantity of sulphate of lime in these apparently dry soils, derived from a linestone formation in these mountains, and which extends south beyond the Almaden district. The detritus of this rock is found mingled with fragments of other rocks containing ferruginous pyrites in a decomposing state, hence the key to its appearance in this locality, and in the case before it serves the purpose of an absorbent of moisture, thus materially facilitating the growth of crops in these sections.

#### VALLEY OF THE SALINAS.

This valley is situated south of the Pajaro River, and is separated from the Santa Clara by a spur of the Monte Diablo Range which sink into a range of low hills forming a divide between the former and the Pajaro Valley also. The length of the Salinas is about ninety-five miles. The main course of the valley is about south-east by east; and is coursed by one river (the Salinas) for its entire length. The stream is situated on the west side of the valley for the first tifty miles of its course, after which it crosses the valley a short distance above the Soledad Mission, at an angle of forty degrees to the main axis of the plain. The physical appearance of this large plain differs much from that of the Santa Clara or the Pajaro: when viewed from its centre it has a gentle slope from the east toward the west: but more mutule examination exhibits a terraced form to the plain, similar to those observed on the Sacramento, and are three in number, and each possessing a soil of different degrees of fertility and value. The river has a fall of about two feet to the mile, and has acquired its present position within a very recent period, running as it does amongst the most recent tertiary rocks, and alluvium in its more northern portions. Near its sources there are several small streams putting into it, which furmsh water throughout the year. The bed of the stream is composed of a fine whitish' quicksand, which renders it dangerous to ford at times, and it is seldom attempted, except at localities which are used for this purpose. A large portion of the valley, within eight or ten miles of the coast, and on its south-east border and centre, is made up of low wet lands, covered with willows and tule, these terminate in lagoons and sloughs as they approach the coast, and contain a sufficient depth of water to float a medium sized vessel to the Bay of Monterey. The only obstacle that renders these waters innavigable for some distance into the interior of the valley, are the bars of drift sand which are thrown up by the surf on the coast: a good and substantial breakwater, constructed at some one of these points, would render navigation safe, and materially enhance the value of the public and private property of this section of country, and be the means of affording not only much needed facilities of transportation in the productions of the interior to market, but afford juducements for the permanent settlement of this immense tract of country (now almost, it might be said, uninhabited and unimproved.) which this, or some other equally efficient measure would be the means of consummating in a short period of time. The extent of land in the interior that would be affected by **a** measure of this kind would be very great; it being not less than one hundred and fifty miles in length, and possessing capacities for agricultural production equal to any in the State. This will appear the more evident and necessary, when we find that the lower bottoms above the Salmas Valley are capable of producing a wheat crop, (at thirty-two bushels per acre) sufficient to meet the demands of a population numbering three times that of the present within this State :---sav nine hundred thousand.

A district of our State presenting capacity and advantages of this character, and crippled as it is for the means of transporting its productions to our markets, should command some attention, and such, at least, as would have a tendency to induce an early and permanent settlement of such lands, if nothing more; and this the more especially as a considerable area of the over-flowed and saline lands of these plains must ultimately fall within the jurisdiction of the State.

## SOILS OF THE SALINAS.

The soils of this valley have been derived from the primitive formations on both sides of the plains: that derived from the granite series on the coast side is coarse and easily permeable to water; this obtains more particularly in the vicinity of the Gabilan mountains, and this variety of soil does not extend beyond the high "mesa" on the castern side. The trapean rocks and high high range exert an important influence in modifying the sterility usually attendant on soils derived from the detritus of the granites, and in this case they exist in sufficient quantities to render those soils productive on the upper terrace of the valley. The productions of each of these terraces differs in a material degree, arising principally from two immediate causes; the first moisture, the second, the liner disintegration of the material composing the soils; to these may be added a third, which sometimes exerts a wide influence on the lower bottom. The upper terrace produces the native wild oat for the most part, or a wiry tough grass; the oat flourishes to the exclusion of the latter on a brown red soil composed of loam mixed with the harsher material derived from the granite, and wherever this loamy matter is found to diminish in quantity, a corresponding increase in the native wire grass is found. This rule was found to hold good in the entire length of the plain on its castern border.

Passing to the second terrace, plants of a different character are found. The oat is found to a considerable extent on some parts of this, but is usually succeeded by another variety of grass which seems much better adapted for feed to animals, and usually grows very thick and matted; among this the common bargrass, which increases in quantity as the lower terrace is approached, and which animals are extremely fond of eating, in preference to the oat when placed side by side ; on the western edge of the second terrace, the wild mustard abounds, covering thousands of acres, and growing to the height of ten to fourteen feet, forming an impenetrable jungle to man or beast for miles mextent; whereer the settler has succeeded in eradicating this article from the soil, it has been found to produce abundant crops of grains or roots, and if anything superior in some cases to the lands of the lower bottom. The lower part of the terrace on which the inustard is usually found in greatest quantities, is sufficiently moist for the propagation of any crops that may be necessary to be placed upon them. Water is obtainable within a few feet of the surface on any part of it.

Passing to the lower terrace, we find the principal native productions to be the burgrass and a variety of the rumex, mingled with a much greater variety of others than is to be found on any other part of these bottoms. On the higher positions the mustard also abounds in considerable quantities. Some parts of this terrace are arenaceous, being covered to the depth of two feet with a loose, fine sand, usually the result of a heavy freshet, and not otherwise. In this is found a third cause for the varieties which these bottoms produce. An interesting exhibition of this occurred from the freshet of last winter, on the Castro Ranch, adjoining the Wacional. At this place about three hundred acres were covered with this sand to the depth of two and a-half feet; on a portion of it a fine field of corn had been raised the previous year, also wheat and barley. The hand formerly produced a heavy growth of inustard, but was reclaimed from this in part by tillage. The effect of the overflow was to destroy every vestige of former vegetation, and in its place a thick growth of willows had sprung up that were equally impenetrable with the mustard on the plans. At the time I visited them they had attained a height of about four feet. This immense deposit of sand on the arable hand of this part the lower bottom is covered by the obstrue-

tions on the beach of the coast to the free egress of the waters from the interior during freshets, and until they shall be removed, some of the best lands of this valley will be constantly subjected to this ruinous result in all coming time.

The amount of fand liable to be thus buried beneath this arenaceous deposit is great, and as it complies a large part of the most valuable property in this section of country, it demands consideration.

The quantity of anable lands contained within the Salina Plans, is estimated at about seven hundred and eighty square miles, this being comprised in the lower terraces only ; the upper terrace cannot strictly be considered as available for agriculture, but it more properly a grazing country with very few exceptions. The above quantities are divided as follows: the lower terrace or river bottom contains three hundred, twenty miles, and the second terrace about four hundred and sixty, and enjoying a climate in its different sections which will be found adapted to the growths of the extremes of temperate zones.

#### PAJARO VALLEY.

This valley is situated on the coast, and is bounded on the porth and east by the southern part of the Santa Cruz Mountains, and on the south by the low hills forming spur of the Gabilan Range, and which divide it from the Salmas Plains. The valley is about eight miles in length, and about four in breadth on an average, exclusive of the foot hills, or low, table hills, on its west border; the Pajaro River forming the boundary of the counties Monterey, Santa Cruz, Santa Clant, has its rise near San Felipe, and flows in a westerly direction through the low hills at the base of the mountains, thence along the northwest border of the valley for about two miles, where crosses the latter within about a quarter of a mile of the town of Watsonville, and reaches the sea at a point south ten degrees west of the latter locality, four miles distant.

This plain is of comparatively recent formation, and formerly was a well-sheltered bay of the sea; the sandstone formation in the hills to the north and east are of the same age as that now forming the coast line between it and the town of Santa Cruz, the fossils of which of present existing species; the forces that were instrumental in elevating this section have been gradual, as is evinced in the highly disturbed position of the sedimentary rocks along the coast for thirty-five miles; in these localities, it is difficult, in some instances to detect any inclination of the strata whatever, and it is only in the mountain sections that this disturbance becomes markedly manifest; the uplift of this entire section has taken place since the rocks on which the tertiaries rest assumed assumed the solid state, as no instance of change in the structure of any of these rocks is apparent at the points of contact. The under-lying rock is primitive and of the granite class, and this continues for eighteen miles north of Santa Cruz. In this valley and also in the vicinity of Santa Cruz the soils are made up of a mixture of the primitive and sedimentary formations, thus rendering them fertile and easily tilled. In the lower lands the soils are much better developed, yet the hilly lands are capable of producing abundant root crops and grains. The cause that render these hill-sides adapted to agriculture is the same as that found on the high terrace of the Santa Clara, viz.: a quantity of sulphate of lime acting as an absorbent, and retaining sufficient moisture to support a healthy nutrition in the plant.

The entire range of hills lying between the Pajaro and south part of the Santa Clara, and also a large portion of that range between the Salinas and Pajaro are well adapted to cropping, particularly for winter grains, and in some instances they are preferable to the valley lands, and would, if brought under cultivation, produce better crops than the plains; they are also much better adapted to the culture of fruit-trees than valley sections, possessing all the elements of which the valleys are composed, and which render them fertile, they possess the advantage of sheltering the young tree from the effects of the strong winds that pass over these sections from the sea, and also its chilling effects on the young blossoms and fruit.

There is no part of this State that I have visited, which possesses the same natural advantages for fruit culture as are to be found in the distric above alluded to; while artificial irrigation is necessary in other parts of the State, in order to sustain the vitality of the tree; this is furnished regularly each night by aqueous exhalation from the ocean, and extending some thirty miles into the interior: during the months of July and August, last summer, an opportunity to observe this part was offered, and I found that over this entire section a sufficient amount of moisture was deposited each night to wet the leaves of plants very sensibly, and during the heavier fogs, a quantity sufficient to keep the ground wet under medium sized trees until near mid-day; a person entering this section of country in the morning would suppose from the appearance of the ground that a light rain had occurred during the night, and it was not untrequent that I was obliged to dry my blankets in the morning previous to saddling my horse.

The soil is equally adapted to their propagation being of texture that will permit the expansion of the roots below the surface without the necessity of sinking deep into the earth, as is the case in many parts of the country, where even the most hardy indigenous trees are found to send their roots to great depths in order to obtain nourishment and support for the trunk. It is surprising that with the advantages presented for the cultivation of American fruit-trees in this section of the State, that so little attention has been given to this subject in this vicinity; heavy losses have been sustained by individuals in attempting to rear trees in many parts of the country, and this has, in a great measure, prevented others from embarking in this enterprize; but in most of those cases where failures have followed the attempt, it has been from a soil illadapted to their propagation, or in localities where floods have had the effect to destroy them.

These injurious influences are absent here, and there is every thing that can be desired to invite the pomologist in this ornamental and useful enterprize.

Fruit culture is to form an important branch in the industrial pursuits of this country : the lands best adapted these purposes in other localities than those mentioned, are to be found in the south and middle portions of the County San Francisco, from the San Mateo to the Francisquito and toward the foot of the mountains to the west. North of San Francisco, the upper portions of Napa Valley and Sonoma are equally as good as those of some parts of the county of Santa Cruz, affording much the same general characteristics as those of the latter county.

#### LIVERMORE VALLEY.

This valley is situated in the central portion of mountains lying east of the bay San Francisco and valley Santa Clara; it divides these mountams into two distinct lines of ridges, and runs rather obtusely to their course. The different names that are applied to this valley convey the idea that there are as many distinct valleys, but such is not the case, as no hills intervene to destroy the general level throughout its entire extent. From its extreme north to its extreme southern terminus the valley is about sixteen miles in length and from five to seven in breadth. On the north it is bounded by Monte Diablo and its adjoining hills, separating it from Pacheco Valley; on the east by a single high ridge separating it from the plains of the San Joaquin; on the south by the hills near the northern part of the Canada Corall, and on the west by the high ridge separating it from the Bay San Francisco. A large portion of the northern centre of this valley is occupied by a lagoon filled with tule, and the latter extend for a considerable distance from its borders.

The soil of the valley is generally good on the borders, but toward the centre it is either wet and heavy and withal somewhat saline, on the higher parts dry and gravelly. The entire district appears much better adapted to grazing lands than to agriculture, unless water for irrigation is obtained through artesian borings, and from the appearance of the valley there is but little question that an abundant supply is obtainable from these sources. The altitude of the valley is four hundred and thirty feet above the sea: and derives the principal portion of its sup: plies of water from the slopes connecting with Monte Diablo. On the south and southwest sides, among the hills, considerable masses of the metamorphic rocks are to be seen, and the appearance of quartz veins is more frequent in this vicinity than in any other section of these mountains that were observed.

On all the hills that surround this basin, are to be found fossiliferous sondstones, and among the alluvium, in some localities, are to be found considerable quantities of fragmentary shells, among which a large Gryphea has heretofore existed in considerable quantities. Some specimens of the latter fossil are to be found in the office of the U. S. Land Survey, but none that were sufficiently perfect for cabinet specimens could be obtained at the time I visited the locality from which the above specimens were taken. These monstrous bivalves retain the animal in a petrified state most perfectly preserved, and it is evident from their distribution and appearance that they must have been elevated above the surface of the waters during life: the evidence of this exists in the fact that nearly every shell contains the animal, which if they had been raised above the surface after life had been destroyed the probabilities are that very few animals would be found.

The route from this valley to the San Joaquin plans lays through a narrow pass emerging from the southwestern side of the valley. The pass retains the name of the valley into which it enters, and is about sixteen miles (inclusive of that part of the valley through which it passes,) in length: at this point you enter the San Joaquin Valley at a point known as the Elk Horn. The house at this place is two hundred and twenty feet above the sea. A gentle rise of the land occurs here for about half a mile, and then the valky slopes gently towards the river. The road to the river follows the course of the tule bottoms for about twelve miles, and then enters an Encinal of oaks, which continue to the river.

One of the chief points of interest in this vicinity is the extensive area covered by tule; they commence near the junction of the river and Suisun bay, and extend to a point about eighteen miles south of Castoria on the west side of the river; having an average breadth of about twelve inles. From the appearance of the country in which they are situated, I had formed an opinion that a large proportion of these lands might be easily reclaimed, and if so, they must ultimately become valuable property. With this view the altitude above the sea was taken in several places, on my return to the mountains to the west, and the average of those results gave the sum of eighty feet above tide level. Should it prove that this level is maintained to any considerable distance and the general character of those lands favor this presumtion, or should there be a depression to the amount of twenty-five feet from their border to their centre, which is rather improbable, there will still remain fiftyfive feet fall to reclaim them by drainage.

If properly drained, these lands could be applied to the culture of rice or other vegetable productions, and judging from the character of the soils immediately about them, they would prove highly prolifie. And here in passing I will mention one incident in relation to the capacity of the soil for production, that may prove not only interesting but useful, in illustration of erroneous opinions heretofore expressed relative to lands on the San Joaquin Valley, and which perhaps has exerted as great an influence in preventing the permanent settlement of these plains as perhaps anything that has been urged against them. Toward the foot-hills of the mountains to the west, is a low table of the valley apparently destitute of water, either for the support of vegetation or animal life, in some parts this land has a slight gravelly appearance, but this is not general; on one ranch situated on this plateau there has been two full crops of barley harvested from the same piece of ground, and when I visited this place in October the third crop was then being harrowed in; the whole having occurred within the term of two hundr dand seventy-three days.

As soon as this fact became known, settlers were soon found to be on their way thither, and at that time there was not a farm to be found vacant for a considerable distance around. There is no reason for the supposition that land on the west side of the river and toward the mountains is unsuited for cultivation, for the fact before us is a sufficient proof to the contrarv.

Having noticed the more general characteristics of the geology of that part of the country embraced in the examinations of the past season, and also their more general adaptation to the industrial departments of agriculture, it now remains to speak of their resources and the uses to which they may be applied.

#### MINERAL RESOURCES OF THE COAST MOUNTAINS.

The minerals of these mountains are widely dispersed throughout their entire extent; they consist principally of copper, iron, lead, silver, gold, mickel, and antimony, with agates, calcedony, and many others too numerous to mention here, but will be found under their proper head.

The metallic minerals are widely distributed; the ores of copper are found in the form of carbonate, sulphuret, and silicate, among the Santa Cruz Mountains; in the vicinity of Rincon Point, south of San Francisco, it is found sparingly disseminated among the trap and metamorphosed rocks of that section. In the mountains, south of Monterev, it is also found over a limited area, and again in the lower hills on the east side of the Salmas Valley, neur the Rancho Alisal. At this locality it occurs in an extensive quarkz dike that has forced its way through all the other rocks both igneous and sedimentary; the forms in which it appears are the blue and green carbonate, in crystals, the subfluret, the latter found in small masses detached from the gangue. In the same rocks is to be found considerable quantities of iron pyrites, generally disseminated and containing a small quantity of gold. The above ores of copper are often met with in these mountains, their occurrence over so wide a range and the trapean rocks with which they are so often associated leads to the belief that at a future day they may be found in sufficient quantity to be profitably worked.

SILVER.—In the county Monterey, this metal occurs in the form of argentiferous galena (or lead and silver) this mineral is found in the primitive and transition linestone abounding in this section; it is found in small veins and disseminated: the range in which it occurs, extends from the Gabilan Peak to the Chapedero on the south, a distance of twelve miles inclusive. The linestone in which it is found, and the granitic rocks adjoining have been disturbed by the intrusion of trapean rocks to the east, and from the opportunity that was offered for its examination it dips under the valley of the west at a considerable angle. A cross-cut has been driven from the west side of the hill for the purpose of intersecting the line of the view, but was abandoned before reaching the limestone. A shaft has also been sunk on the vein to the depth of fifty-five feet, and at the bottom the granite had been reached, an opportunity was presented in the level from the bottom of the shaft to make an examination on its line of strike, and from all that could be seen, (as there had been much caving in of the walls) it is evident that the metallie vem is contributed to the calcaceous rock, as no vestige of it was to be found in any part of the granite below it.

At one point the decomposed vein showed a power of four or five inches for two feet in depth, this was followed down to the granite, and at its junction all traces of the vein ceased to exist. It is not improbable that a well defined sett may be found under the valley, but it will require much exploration and expenditure of capital to determine that point, as mining operations cannot be entered upon with small means and ultimate prospects of success.

Traces of this inneral are to be met with for several miles north and south of this locality, and its distribution over so wide a range of country induces a behef that a profitable view may yet be found in these mountains.

IRON.—This metal is found in almost every variety of form, from one end of the Coast Mountains to the other, the prevailing mineral however, is the peroxide and protoxide of this metal; the latter is often found in the form of hydrate, and when occuring in proximity to serpentine rocks often found to be more or less auriferous. This mineral is largely developed in some parts of the auriferous district of Mariposa county, and from one of the most valuable receptacles of gold among the gold-bearing rocks of that section.

SULPHATE IRON.—This article known in commerce under the name of "Copperas," is found native in large quantities near the town of Santa Cruz. Its principle had occurred a short distance west of the house of Mr. Medor in a guleh running from the mountains through the low hills to the coast. I tollowed the course of the rayine from where it enters the high hill near the crossing of the road north-west of the town to near the sea, the average depth of its banks varies from fifteen to thirty feet, its length from the hill to the coast being about two miles.

The copperas formed an efforcescence on the sides and bottom of the ravine covering entirely the earth and stones, on which a great quantity had crystalized; it was not difficult to scoop up a pound or more, at any one of these places; the banks of the ravine above the water were covered with the chloresced salt to such a thickness that a white and green color was given for several yards in length, the ground being entirely obscured. The depth of the earth that was thoroughly impregnated with the salt, would average ten feet for the whole length of the ravine the depth to which this descends below the surface is unknown, but it is probably considerable : the rocks at the bottom are a micaceous schist and were broken into for two or three feet and at that depth seemed as strongly charged with the ferruginous salt as at the surface. A small stream of water runs through the gulch which is permanent throughout the year, and carries a sufficient quantity to answer all the purposes of an extensive manufacture of this article for commerce. It would be difficult to find a loccality that combines the same advantages that this does for the manufacture of sulphate of iron; all that is necessary to be done has been performed by nature, and to extract the salt it is only necessary to erect vats upon the coast and shovel the earth, to be leached, directly into them. An area of several square miles is highly charged with the mineral and the day is not far distant when Santa Cruz will become as celebrated for the manufacture of this article as it has been heretofore for its vegetable productions.

MAGNETIC IRON.—At the distance of two nulses north-west of the above locality, an extensive bed of magnetic iron occurs, running down to the coast, at which point it crops out and exhibits a depth of several feet. Toward the mountains I have been informed that it again shows itself above the surface in several places; there is every reason to believe that it underlies an extensive district, as much difficulty has been experienced in obtaining correct courses by the compass; in one instance the needle was deflected to thirty-one degrees on approaching its southern edge.

GYPSUM.—Sulphate of lime is reported to abound in the northern part of Santa Cruz, and in the vicinity of the Palo de los Yeska, some six miles from the Mission: it was frequently spoken of by the inhabitants of this place but I was unable to learn its precise locality. It is not improbable that it does abound in this vicinity, as ample material for its formation exists in this section of country. An extensive bed of mountain limestone occurs in close proximity to the native sulphate of iron alluded to in the former paragraph.

CINNABAR—Has also been reported to have occurred in this vicinity. I found one small piece east of the San Lorenzo on the side of a hill, but it is not impossible that it might have been carried there by human means, as no other mineral of the same character was observed; the occurrence of small detached pieces of cinnabar in these places is not sufficient evidence to found a behef that it occurs in situ, or that a de posit may occur there.

NIKEL.—The ores of this metal are found from Contra Costa on the north to the utmost southern limit reached in the Coast Mountains. It occurs in the primitive rocks, associated with chronic iron in almost every case where the latter may be obtained. It appears as a bright green mineral on the fractured surface of the other ores, and is known in technical language as "incked green." The scarcity of this metal renders the discovery of its ores in this country an object of some importance, and its wide distribution leads to the belief that it exists in sufficient quantities to warrant investment for its extraction from other ores, at no distant day. It is extensively used in the manufacture of German Silver for wares and household utensils. When reduced, the metal is white, much resembling silver in in its general appearance, and for which it has been mistaken in this country. The principal localities where it has been observed this season are at Contra Costa, in the sorpentine rocks south of Tulecita and near San Antonia in the county Monterey, among the large beds of chronic iron from the San Benito, and the Panoches, of the Gabilan range. These localities afford the largest amounts yet found in this State, and it is to be hoped that those explorations which are now in progress in this part of the country may result in the development of this mineral to a much greater extent than yet known.

GOLD.—This metal has been found in the Coast Mountains, from the County San Francisco on the north to Luis Obispo on the south. The slates and serpentine formations which have been noticed in the preceding pages of this report are found to be receptacles of gold here as in the Sierra Nevada; these rocks are extensive in the Coast Mountains, often comprising an entire ridge for miles, they are usually flanked by the granite. During the past summer, the placers in the County Santa Cruz were much worked; the gold found here was principally on the San Lorenzo and its tributaries; it was fine, and much resembled that found in the Caoti Hill, near Nevada; under the glass it had all the appearance of having suffered but little from attrition by water, the surface of the grains being rough, as though just detached from their original matrix. The slates and serpentine rocks occur on both sides of this creek, with small veins of quartz running through them, and from what we know of auriferous districts of this and other countries, the presumption that gold in situ exists here, amounts nearly to a certainty.

On the upper portions of the Carmello, in the county Montery, gold is also found, in the immediate vicinity of the Rancho Tulecita. Farther to the southeast, near the head waters of the creek, it is also found on the tributaries of the main stream, that flow from the western ridge of these mountains. On the Francisquito, a tributary of the Carmello, coming from the southwest, and twelve miles from the coast it is also found near the house of Barondo. Three or four Mexicans were working with the battaya at the time I passed that ranche. The serpentine rocks are largely developed on the east flanks of the granite ridges, and from their course they may be considered as forming the northern part of a series which occurs at the Mission San Antonio fifty miles south.

I was informed by Mr. Meadows, who has traversed the interior of these mountains probably more than any other man in this part of the country, that the same class of rocks are found throughout the distance inclusive between the Carmello and the above Mission. Near San Antonio there were several persons at work during the past summer, in the placers in this vicinity. This was no new discovery, for the existence of gold at this locality has been known since 1850. Those at work at this place were mostly Mexicans, and while traveling on the Salinas I frequently met companies of five or six, with their camp material and tools, wending their way to this section.

On the Pescadero Creek, a tributary of the Pajaro River, gold was found during the past summer; it was first observed a short distance above the bituminous springs lying on the north bank of this stream; the serpentine rocks abound in this vicinity, and also some of its subordinate members; at this place the Magnesian Group of the Santa Cruz Mountains, which run north into San Francisco, have their southern terminus. On the Rancho La Brue, near the Pescadero, and into the very edge of the Valley Santa Clara the talcose series and gold is found; on crossing the Pajaro, these rocks and with them the gold closes; not a trace of this metal, or rock that would indicate its existence was to be found in any of the hills east of the Gabilan.

The district of country in the Coast Mountains in which the aurifererous deposits are now known to occur is about eighty miles in length, and thus far is contined to the counties of Santa Clara. Monterey and the north part of Luis Obispo. This is a material addition to the already known area in which this metal is found, and its location in what has heretofore been considered the agricultural districts of the State, will in time exert a beneficial influence in the permanent settlement of those sections.

ANTIMONY.—The common sulphuret of this metal is very abundant in the Monte Diablo Range; at Mount Oso it is found in large masses, also at various other points throughout these mountains; it occurs in considerable quantities in some parts of the County of Santa Barbara. This mineral is deserving of attention as it often contains a notable quantity of silver, though as yet no specimens which have been found in this country contain a large per centage of this metal. That variety of the antimonial ores which is argentiferous, has a lively steel-gray color, cuts easily with the knife and is brittle, while the common gray antimony, which is the principal yet found, has a lead-gray color, its fractured surface, easily tarnishes and scales of the mineral are slightly flexible.

BITUMEN.—Bituminous springs abound through the Coast Mountains, and in some places is much used in the construction of buildings, and walks in front of buildings; for the latter purposes it is admirably adapted in situations where the sun will not have too powerful an effect upon it, as in such cases it is apt to become soft. In the counties of Santa Clara, Santa Cruz and Monterey, several of these springs occur, and further south are found more abundant. Information has been received of an extensive deposit of bitumen in Contra Costa, some six miles from the shores of the bay, but at what point I have as yet been unable to learn. This article has been used of late in the manufacture of gas, for illumination, and it possesses some advantages over the common oil or resin gas in general use; a sufficient quantity for the illumination of the country may be easily obtained and at low rates when required for this purpose.

CINNABAR.—This mineral is well known, and the principal mine now opened in this country is at New Almaden in the County of Santa Clara and situated twelve miles from San José. The town of Almaden is situated four hundred and eighty feet above the sea and the mine is eight hundred and sixty feet above the town, making the elevation of the mine thirteen hundred forty-five above tide level. The ore at this mine is found in bunches or deposits in a clay highly charged with peroxide irou. The cinnabar contains considerable arsenic generally disseminated through the ore, small veins of calcareous spar are found running through the mineral giving it at times a fanciful appearance. The magnesian rocks are largely developed in this section, both at the mine and in the mountains to the south-west. The rocks in the immediate vicinity of the mine are talcose in their character, much decomposed and broken up; at the base of the hill on which the mine is located there is to be found native magnesia on the surfaces of the rocks.

The deposit of ore at this locality is very large, and will require many years to exhaust it. As the mine consists of deposits simply, there is up certainty of its continuance beyond the surface that may be exposed: it has been supposed generally that the ores of this inme occurred in the form of veins, but such is not the fact, and so far as I could learn from the superintendents at the mine, no well defined wein had been found since its opening. The principal adit of the imne is one thousand feet in length, and at the end of this a body of ore fifteen feet square had been exposed in one place; other similar masses, and even larger ones, were laid bare in different parts of the mme. An mehned winze had been driven to the depth of about one hundred feet below the level of the adit, at the bottom of which immense bodies of ore had been found. From the quantity of ore on hand, and that exposed in the mine, the prospects of the company arc highly flattering for a handsome return for the heavy outlays of capital which have heretofore been made. At the date of my visit, the company were erecting twelve new furnaces in addition to those already in operation, having a capacity for working of twelve thousand pounds per week each, with an abundance of ore in the hacienda for their supply. The construction of their adit and the interior of the mine, with their reduction works, are of a character for permanency, workmanship and scientific skill to be found only among large mining operations. The ease and regularity with which everything connected with the mine argues well, for its administrador, and exhibits a thorough understanding of the requisites necessary to insure success in extensive operations.

A better regulated, or more systematic method of mining, is not to be found in this or any other country, and is well worthy a visit from any who may wish to obtain an idea of what practical mining is in a large way. At the distance of three uniles, another mine of the same character has been opened, but is not in operation at present, this latter is called the Gaudulupe; it has not proved extensive up to the present time.

In the lists of minerals, appended to this report, will be found more specific detail respecting their distribution among the rocks of the coast mountains. A description of the fossils will also accompany the latter, as far as the nature of circumstances will permit. The scarcity of books of reference in this country, at the present time, will render it impossible to define all the species that have been secured the past season; the genera will be nearly complete, and in the course of the ensuing season, the species of those genera will be described, as ample works for that purpose will be at hand within that time: there appears to be many that are undescribed in any of the works on hand at present.

### MINERAL DISTRICT.

After completing the examination of the coast mountains within the parallels alluded to, a visit was made to the mineral districts, embracing parts of the counties Nevada, Placer, El Dorado, and Calaveras, the object of which, was to connect a line of travel commenced in May and June last, in the counties of Butte. Yuba, and Sierra; and to obtain, if possible, some information respecting the general character of placer and quartz mining at the present time, compared with its earlier prospects.

Two years having elapsed since I had visited this section of the country, and having in my possession the original notes of travel and maps made at that time, with a general acquaintance of their former condition, it was deemed advisable to make this particular examination, in order to form some estimate on their future prospects.

With this view, the more central portions of the mining districts were selected, as these may be considered a fair example of the extremes, and from the lateness of the season and distance were more accessible.

### PLACER MINING.

The extensive excavations, which have been made within the last two years, in this branch of mining has afforded an opportunity of examining the different mountain formations not heretotore obtained, and has been the means of cheiting much valuable and interesting information, relative to the early condition and mutations, which have taken place in the superficial coverings of our hills. The rapid progress of advancement in the methods of conducting mining operations in this branch particularly, has opened a door for scientific research, which it seems impossible to have accomplished in so short a period as that in which they have been occupied; they have the appearance of having been in operation for half a century rather than the short space of *four years*.

It is now ascertained to a certainty that the placer ranges extend to the east, within ten or fifteen miles of the "summit ridge" so called of the Sierra Nevada; and the condition in which it is found at these points are similar in all respects to that in the older or more western sections, with perhaps one exception, and that the relative age of both. There are evidences which clearly indicate a deposit of gold older than the diluvial drift of the lower or western diggings, (which latter is often confounded with the drift deposits of the tertiary periods in this country) the character of which differs in almost every respect from any other deposit yet observed in this country, except in this particular range.*

Its direction has been traced for about seventy miles, and is found to extend through the counties of Butte, the eastern part of Yuba, Sierra, Nevada, Placer, and El Dorado; it appears to have an average breadth

^{*} This deposit appears to hold a position and age below the tertiaries, and may be considered intermediate between the latter and the primative formations in this State, its fossils differ from any thus far found, in any formation within the State, and I am disposed to refer it to the Brandan group of Vermont, discovered by Prof Hichcock, vide Sillman's Journal of Science.

of about four miles, with an elevation of four thousand feet above the . sea for the greatest part of its length.

From the examinations that were made upon this range, there are abundant evidences that an ancient stream flowed through this section of the country, and in a direction parallel with its then existing mountain ridges, and the extensive mining operations conducted in the southeast part of Sierra county on this range, has been the means of demonstrating this fact, which had heretofore been strongly suspected only. The outliers of its banks are very definitely marked throughout the entire length of the formation under consideration, and its former bed filled in many places with a volcanic sand and ashes, which probably accompanied its displacement.

In the county Sierra these peculiarities are best observed; in the vicinity, and for ten miles west of Downeville, the hills are covered with a volcanic breeia and tufa, which may be conveniently studied between the Negro Tent and Galloway's Ranch, also on all the hills and ravines surrounding Yumanna on Oregon Creek. On the creek the tufaceous deposit is found to the depth of sixty feet.

The exact point from which these immense quantities of volcanic inaterials were ejected, is somewhat obscure: yet there are reasons for the supposition that they had their origin in the truncated cones which lie a few miles to the north-east, and of which the Pilot Peak forms one of the principal points or centres of this rugged and forbidding district. This presumption is based on the grounds that between Pilot Peak and Yumana there are ample evidences of a direct connection with these larger centres of disturbance; an extensive dike of black scoriaceous and vescular lava is traceable throughout the entire distance between Yumana and the Pilot Peak, passing through the hill north-west of Downieville, and within two hundred yards of the town, it crosses the river at this point and appears at Durgan's Flat on the opposite side of the stream, from thence it is again met near Galloway's Ranch, and continues from there to the high bluff which overhangs the town of Yumana, on Oregon Creek. There are no other true volcanic cones in this section that would seem commensurate with so large a scale of operations, except those above noted, though the minor peaks undoubtedly added much to the general result.

The displacement of this ancient stream and the subsequent filling of its bed has opened a new and rich field for scientific research in this State, but its more direct and economical bearings are that it affords an equally new and extensive field for the operations of the placer miner, and that thus far has proved itself equal to that of any range yet discovered in this country. Besides being equally abundant in its produce of gold as far as opened, with the best placers of the State, it possesses the advantage of being the most extensive of any one system which has yet been found. The peculiarities which characterize this formation and which distinguishes it from all others in the State, are the following: the boulders found throughout its entire extent are very uniform in their characters, and are composed of quartz exclusively, (or nearly so) this has a bluish-watery color in the mass, highly translucent and vitreous when fractured, constituting ninety-seven per cent. of all the stones found in the deeper diggings, they are invested by a dull but deep blue earthy material highly charged with pyrites, which in most cases is as firm as the rocks thenselves, making it extremely laborous and difficult in driving shafts or adds. The gold is contained in this matrix for a distance of six or eight feet above the "bed-rock," and resting directly on the latter, it is coarse and generally rough, and its external appearance is that of a poor quality, though it assays high and brings the first prices; its pale and dirty appearance is due to a small quantity of arsenical pyrites which adheres to its surface and which is found in considerable quantities in the matrix containing the gold.

The underlying rocks are serpentine and talcose slates; on Oregon Oreek they are found to contain small voins of mundic (arsemcal pyrites) one or two inches in thickness, this has a clear and lively gravish-white color, when recently fractured, but soon tarnishes on exposure, becoming a dirty lead gray, and even quite dark; this mineral is rich in gold, it is difficult to find a small piece that does not present this metal to the naked eye on some part of its surface.

The mineral was first observed in the Johnson Shaft, half a mile north of the town of Yumanna, and occurs at a depth of fifty feet below the level of the creek, at the edge of which the shaft was driven, the strike of these venis was north-west by west, and is found on both sides of the stream on that line. There were four other shafts in this vicinity in which the mundle was found under the same circumstances; and there can be scarcely a question but that it exists in true venis among the serpentine rocks throughout this part of the country. These venis have been found to penetrate the rocks in which they occur to the depth of six feet from the surface, and should it ultimately be found that the area is in any way considerable through which they run, the offer sufficient inducement to erect works for the reduction of this ore.

The blue color of the drift in this range has been found to pervade all parts of this peculiar deposit wherever it occurs, its boulders maintain their character and per centage, its extent over so large a district, its dissimilarity in these respects with all other placers yet known, has suggested the propriety of adopting a name which shall at once seperate it from other sections, in order to designate more particularly its course and extent in the future; by this means we shall in a short time be able to acquire additional information relative to its extent that we do not now possess, and as its developements at the present time are of so flattering a nature, that any information of its present undiscovered boundaries, would add but another link to the great chain of our mineral resources, equally as important and productive as the best now known.

I would, therefore, suggest, that the term "*Eastern Blue Range*," be applied to this district; this will separate it from those lower down having the same color, but not possessing any one of its other peculiarities.

To define more particularly the position of this formation, both geographically and geologically, we will follow more particularly the outline of the ancient stream, and some few of the localities now situated upon it. On the south fork of Feather River, opposite to Sailor Bar, and east of this locality for three miles it is found in the form of small flats on the sides of hills declining to the east; passing to the south, it is met with a short distance from Goodyear's Bar, again at Yumanna, on Oregon Creek, still farther south at Minesota, at Chipseg's, Smith's and Kanaka Flats; crossing the Middle Yuba, it is found at Orleans Flat, Moore's Flat, New Flats, thence across the south Yuba, by the towns of Eureka, Washington, and Poor Man's Creek, and at Mule Springs. This vicinity has presented an area of nine index in which this formation has been found. Crossing Bear River, it is again met at each side of the American Forks, and is particularly well developed in the vicinity of Sarahsville, extending from thence to Georgetown. South of this, but very little is known of its location.

Within the extremes of north and south named above, the banks of an ancient stream are distinctly marked out, and can be as easily traced as if the waters were still flowing in their original bed. It must have existed at a date when the adjacent country maintained a much less elevation than that now existing; thus is proven from the fact that, even at this time a terraced form is observable in many places, in each of which the same peculiarities abound. The organic matters deposited are perfect in their forms, the most delicate parts of leaves are truthfully preserved to nature; the material in which they are imbedded is that usually found suspended in waters that were but slightly disturbed, and when disintegrated yields an almost unpulpable powder—not a pebble, nor even coarse sand is to be found in any part of it. In fact every feature that would indicate a quiet state of waters is fulfilled in the section under consideration. Had it been otherwise, the leaves and other tender parts of plants would have exhibited a different appearance from that they now present.

The remains of plants found in these localities are extinct on this part of the coast at the present date, the fruit, leaf, and structure of the sapvessels, differ from those of every other section of the country, either fossil or living. I have been enabled to obtain six varieties of leaves, and two varieties of fruits, which will be described as soon as opportunity shall offer. The depth at which these specimens were obtained from the surface was one hundred seventy feet, and near the end of an adit whose length was five hundred eighty feet, the principal bed was found in the Arcana Tunnel, at the town of Minesota.

The position of this formation has been stated in the preceding pages, to be below the tertiary groups and diluvial drift of the other placers. It will be unnecessary to roam over the entire State to illustrate or prove this point, as we have an adjacent district where both may be studied with ease and facility in an hour's ride between them. This locality is found at Chipseg's and Smith's Flats, about midway between Minesota and Oregon Creek. The different formations will be given as they occur at Smith's Flat and Minesota, which will fully illustrate the existing differences.

At Minesota we find the following in the descending order: First, volcame tufa; second, diluvial drift, contaming no gold and having a depth of seventy feet; below this is found a bed of clay and imperfectly formed slates beneath which a boulder formation of thirty-eight feet composed almost exclusively of quartz; succeeding this the formation in question, containing the subcified woods, and leaves and fruits, the latter in the form of lignites, and in abundance. Following a direct line from this locality to Smith's Flat and at the distance of half a mile from the latter we meet an outcrop of the slates, above these slates the drift and gold of this latter locality is found, and contains petrifactions of present existing species of plants and trees, which still flourish in the adjoining neighborhood; among these the pine and oak are very promment. The structure of these silicified woods are as perfectly delineated as in the trees of similar character growing above them. The drift deposit at this locality is composed of every variety of rock found in the adjoining countries, being composed of trap, granite, porphyries and quartz, forming no well defined order of position.

The drift, deposit of Minesota being almost exclusively of quartz, such as has been described as occuring at Yumanna, forms a wide contrast with the above, and beneath the boulder formation the lignites, consisting of six species none of which are identical with any living species, or with the deposits of the section north of this locality. It will be seen from the peculiarities thus briefly enumerated in relation to the main features of both deposits, the widely dissimilar character of the minerals composing both, their relative position, and the difference in the organic deposits found in both, there is sufficient reason for assigning to each a different age.

How correct this conclusion may be, it yet remains to be proved, if additional testimony is required; and this can only be known when this particular section shall have been more fully explored. Certain it is, however, that its present appearance favors this classification; and should it prove as productive in its auriferous deposits as the partial explorations upon it now indicate, the amount of gold which it capable of producing would be unequalled in any district heretofore or at present known. There is not an instance known, where the lead in this range has been found, but that large sums of gold have been the result; this might be saying more, perhaps, than prudence would dictate, but such are the facts in the case, let opinion be what they may.

### QUARTZ MINING.

For two years past this branch of industry has engrossed much of public attention, and speculation on the future success and prospects of these mines has been as diversified and fluctuating as upon any subject ever presented to public consideration; this has resulted from an incorrect appreciation of their intrinsic value, and want of information respecting their position, geologically considered, coupled with disappointments resulting in too high anticipations of abundant products from these sources in too short periods of time; the hasty and inconsiderate manner in which persons entered into these speculations in the country heretofore, and the natural results which must necessarily flow from such a course of action, has had the effect to cast a shadow of doubt for the time being, on the future prospects of these sources of wealth, while the pecuniary losses that followed in the the train of these causes were construed by alarmists abroad as indexes of certain failure, and thus rendered the doubt that existed an *apparent* certainty.

All this however, has had a beneficial effect in its ultimate results, by checking that abnormal cause of action incident to the first outbreak of all speculative movements of this kind. Had that cool discretion and judgment which has marked the subsequent career of these undertakings—that firm determination to surmount all natural obstacles and test the truth or falsity of the claim advanced of the value of these veins, been practiced in the earlier stages of quartz mining, we should have been spared the disagreeable task of chronicling adversity and *pseudofaulures* in a legitimate and profitable branch of employment, thus saving this one of the grand levers of our commercial prosperity the odium that has heretofore attached to it and is still persistent in the minds of some abroad.

Aided by the discrepant and in many cases malicious reports from our own hills, the savans of the Atlantic States and Europe reiterated the howl, and the public of those distant shores were nightly harrangued in the lecture-room, and popular assemblyes, on the utter *impossibility* of the auriferous veins of this country proving to be more than a mere ephemeral show, and unworthy the confidence of reflecting minds. Their gratuitous expressions and unfavorable opinions, are now proved from the subsequent explorations which have been conducted on these years, to be equally unfounded as were the arguments made use of by these men to convince their listening audiences of the *supposed facts* they so learnedly put forth; and our citizens engaged in these pursuits of industry have labored on, temporarily affected only by the confusion of opinions and anathemas issued from the portals of science, against this great interest of the State, and have borne the testimony triumphantly to the world that science unattended by personal experience will render him who uses it far more notorious than popular or reliable.

Notwitstanding the disadvantages of a manufactured public opinion with which this branch of industry has been obliged to contend, and the serious obstacles which have thus been presented to its progress, it has now become one of the permanent employments of the State, and should it meet with no other impediments than those which are the resultants of nature, it will obtain a position second to none, within the next two years.

The permanency of their character would scarcely have been demonstrated in the short period of time in which it has occurred, in any other country or State except this, and is in true keeping with the firmness of purpose manifested in every great undertaking by the citizens of this State, and is but another mark of that indomitable perseverance in overcoming difficulties either natural or artificial, that stand in the path of their advancement, for which they have become peculiarly characterized and proverbial.

The popular belief that the gold mines of this State, and the operations conducted upon them heretofore has been suspended, with the exception perhaps of a few isolated cases scattered through the country, and that they hold but a forced existence for speculative puposes, designed ultimately to be the means of conducting swindling operations on a large scale abroad, is as base as it is unfounded; those feelings and ideas find a haven in the breasts of a few only, who from their position commercially have been the means of propagating this erroneous and unjust opinion in relation to this subject. The embittered feelings of such persons, which have had their origin in disappointed hopes arising from too hasty conclusions respecting the productiveness of those operations in which they were individually interested, and which in nearly every case was caused by inadequacy of means and mismanagement of their operations, is no criterion whereby to form an opinion that would be just or reasonable, with reference to these metallic verns, and those in this country who would still propagate those opinions, do so in the face of every evidence to the contrary which reason or sober judgment would demand or can be found in this or any other country.

With these preliminary remarks on the general impressions at home and abroad, respecting their *theoretic* value, founded as they are on presumption rather than evidence, we shall proceed to consider the geological position which the quartz veins of this State hold to the rocks with which they are found in connection, hoping thereby to elucidate more clearly their present as well as prospective value.

# QUARTZ VEINS AND THEIR RELATIVE AGES IN CALI-FORNIA.

The quartz veins of this State are found distributed in nearly parallel lines throughout the west flank of the Sierra Nevada, and consist of three distinct lines separated by intervals ranging from four to eleven miles; as these divisions are found in nature they constitute what may be denominated the principal or main ranges. Between these are to be found smaller lines of these rocks at times running parallel with the former, at others having strikes more or less oblique, and even at right angles in some instances with the principal veins.

From the peculiar distribution of these rocks, as relates to their connection and position with the formations in which they are found, it would be difficult to refer them all to the same age; this would be manifest only by observing the different sections in which they occur. They will therefore be designated in this report as the *Older* and *Recent* groups, in order to better describe the peculiarities that may be found in both, and with reference also to the age of the rocks which they have been the apparent cause of disturbing.

### OLDER GROUP.

The eastern and also a part of what may be termed the central line of dikes are included under this head. This group is found to have intruded itself through the primitive formations only, or through the trapean rocks which immediately succeed the primitive. The principal rocks which appear to have suffered the greatest amount of local disturbance and dislocation from these quartz veins, have been the granite serpentine and the earlier trapean rocks, which appear to under-lie both the former. The veins or dikes that occur in the primitive series are usually much more massive than those of a later period, and are not distributed over so wide an area, or possess so great a number of lateral veins, or cross-courses incident to the more recent group of these rocks.

The mineral characteristics of the Older Group are more uniform and regular so far as known, and are found to possess a firmness of texture, where they enter the greenstone, much greater than those of recent date. It is seldom found that this suite of veins has cut through or in any way disturbed the slates which rest on the granite, even when the latter are in the immediate neighborhood; less rare is it to find them cut through by the older group; that in a line of travel over two hundred miles in length that I have seen but two instances in the eastern range of veins, and it is oven questionable whether this dike belonged strictly to the older group.

The effect of these veins on the rocks which they pass through, has been to disorganize their structure to a considerable extent, which has rendered the decomposition of both more rapid and complete, hence it. frequently happens that rich deposits of metal are found in such places, and usually occur near the point of contact of both series of rocks. The older group is found to extend from near the summit ridge of the mountains to a distance of about forty miles toward the west, and constitute nearly six-eights (6-8) of all the veins found within this line of distance. and on these are located the greatest proportion of all the mines at present in operation.

In that portion of the country lying north of the Cosumnes River and ranging thirty miles east of the Valley Sacramento, the central line of dikes belonging to the older group, are found, their western edge passes through the counties of El Dorado, Placer, Nevada, Butte and Shasta, and as far north as the Mt. Shata hills to the east of the peak. It is well developed in the counties of El Dorado, Placer and Nevada, and in one locality in the county of Yuba, a short distance above Scott's Ferry. In these latter counties the more recent group is also found, and in the county of Nevada it is seen to have disturbed the older groups in some localities, and in Placer county, where both have features in common which will be noticed more particularly when treating of the Recent group.

To localize the upper and older group of these veins, a few localities will be given for the purpose of familiarizing their geographical positions; in Nevada county it is met with at the National vein, also at German Bar, at the Ariel Mine in Sierra county, and the Jamison Creek mines in Butte county; on the American forks at the Volcano mine, El Dorado county; Leake Vein, Calaveras county; Big Oak Flat, and Marble Springs, Tuolumne county.

These localities are situated far into the mountains, and are situated on the eastern part of this line of dikes, and upon those parts of it where it is most largely developed, becoming an extended and well defined continuous range.

Returning to the middle or central range of dikes, at the distance of thirty miles from the valley, and travelling south we find that immediately after crossing the Consumnes, the granute rocks that have heretofore been found associated with this range of venus further north begin to disappear in a gradual manner, and the prevailing rocks are talcose, to the exclusion of almost every other of the primitive series; for a distance of about fifty miles, the quartz is found associated with this or some of its subordinate members, the granitic rocks lying far to the east. The quartz vein found among the talcose series and which appear of the same age as those occurring in the granite, are equally uniform in the general characteristics they present, so far as relates to their inineral constituents, but there is one remarkable feature attending them here (as also to the north in a few instances.) which is not common to the granitic associations of these rocks, viz: the depth to which the vem is decomposed from the surface down, will not exceed more than one-fourth that which will be found where the inverting rock is of the granitic series. This peculiar feature is very striking in passing from a "sett" situated in the latter to one located in the former, and will be found to hold good even in the same neighborhood.

One other feature is equally apparent, and at the same time important in connection with this, which is, that while those veins present the contrast above noted, the "setts" occuring in the serpentive series which have been unaffected by the cause producing such extensive decomposition as is found among the granite rocks, do not possess a texture so firm and coherent as the veins found in the northern sections, such veins will be worked with a less amount of labor and capital producing an equal amount of ore.

There is nothing to distinguish the veins of this section from being of the same age with those at the north, and running through a similar range of country, like the veing of the granitic series they do not appear to have disturbed the more recent formation of the tertiaries, but are confined exclusively to the primitive rocks. Following a line west toward the valleys, the occurrence of a more recent group becomes manifest, and is unquestionably the equivalent of that alluded to as occurring throughout the northern counties.

### RECENT GROUP.

This group of these rocks is found extending from the lowest foot-hills on the east border of the valley, where the first outcrop of the slates are met, to a distance of about eighteen miles to the east, and after is found running into the western edge of the older group; their intrusion appears to have formed one of the principal and later disturbing agents that has been in action in those periods of development of that part of this country, immediately preceding, and continuing into the middle Eocene and Miocene periods of the tertiary era.

Their altitude above the sea is variable, from one hundred to fifteen hundred feet, and some few localities reach the height of two thousand. One of the features, which this group presents, and which distinguishes it from those of the older group is, that they have cut through and disturbed not only the primitive formations, but every other formation found resting upon them, this occurs in almost every case in which these rocks are found. A dike of this age is often found protruding through the granite or some other member of the primitive series, and may be traced frequently for one or two miles before any member of the sedimentry rocks are met with; in this case, the latter rocks will be found more or less disturbed at the point of contact with the vein, and it will often be found that its passage from the granite beneath into the slates above is perfect, traversing the overlying rock through a great part of its length, and sending out cross courses in every direction. A di-s turbed position is not the only change observable in these cases ; structural change is as often the result of the intrusion among the slates as the appearance of the veins themselves. The above peculiarities in relation to these views are observable in every part of the lower mining districts, and an erroneous opinion in regard to the age of the dike under examination may easily occur as the part under our observation may be situated either in the primitive or sedimentary rocks.

A dike of this character occurs in the town of Centreville, Placer County, and extends in a northerly direction for one and a half miles through granite, when it enters the slates, passing entirely through their length and again appearing in granite at their northern extremity; another instance of a similar character is met with on Deer Creck, two miles below Nevada; here the dike passes through the trap, granite and slate, and also at Newtown in the same county. Still further north, in the County of Yuba, a year cuts both the granite and slate, as in the vienity of Brown's Valley, and again on Dry Creek; in many other localities throughout this range of country, the same features are to be found, and our opinion on the comparative ages of these years, can be correctly founded only by a careful examination of the entire length of the year.

On the same range of hills, this group is continued south as far as the Tuolunne River, and includes the district on which some of the principal companies of the southern counties are located. It frequently happens that the veins of this group are composed of a perfect *net-work* of small threads and veins, varying in power from one nich to one foot. This peculiarity is admirably exemplified at Angel's Camp in Calaveras County, at this locality and for nules around these small "*hilos*," constitute a large part of the rich veins of this section, while at the distance of four miles to the south, it again appears as a manimoth dike, popularly known as the "Great Canson Hill Vein," which extends southerly to the Stanislaus River.

From this point a line of large dikes interrupted at intervals continue in a southeast direction for sixty miles, passing through Campo Seco, Coulterville, Bear Valley, and thence to Mt. Ophir; throughout this entire distance they are found to cut through all other volc nic rocks, with perhaps one or two exceptions: the lasaltic tocks in some parts of the southern counties bear evidence of displacement by these intrusions, and I know of but two cases in which the latter intrusions have thrown these years, and in these cases it is not yet fully determined whether this be the fact. It is on the west flanks of the hills in which the dikes of the recent group of quartz appears, that the features which mark their age are more particularly noticeable; here the slates (and in the foothills, the sandstone) present all the varied changes of position and structure, noticed by different writers on the physical features incident to the mountain districts of California—at one time dipping east at another west, and again half inverted, in the multifarious disturbances to which they have been subjected.

The greatest amount of displacement in the sedimentary rocks is always found in the closest proximity to the venus in their immediate vicinity, and although a vertical position only may be given in many instances, yet this is found to become less as you recede from the vein on either hand transversely to its line of strike; it is not unfrequent that the high angle of dip in the first instance will assume a nearly horizontal position in the distance of a mile from the point of uplift, but the next ridge will present a re-enactment of the first case if the rocks composing it are of the same character.

The vertical position of the slates is one of those peculiar features which attracts the attention of almost every person passing to or from the interior, from their appearance resembling an old church-yard they have been termed the grace-stone slates, and this distinctive feature is found to pervail to the lower range of foot-hills toward the valley, as well as in the more elevated parts of the mountains; this verticality among the lower hills has been urged as an objection to the point that the intrusion of the quartz of either group, was not the moundate cause of that uplift, but that the present inclination has been given by causes of a a similar character which have acted subsequent to the intrusion of the quartzose veins.

This proposition seems invalid for this reason: if any such agency as that proposed had been the immediate cause of producing the effects which are observable among the slates of this section and sufficiently powerful to have forced them into the position they now occupy: it seems but reasonable to suppose that some portions of the intrusivo materials should make their appearance among them; but this is not the case, nor is it necessary to introduce such a complication in order to explain the physical features which are apparent in these rocks, as we find an agent distributed largely among them, which is fully adequate to induce all the changes of position or structure noticeable.

That we do not find massive outcrops of these dikes among the slates at the edge of the valley, is equally invalid as an objection against their agency in producing the disturbances which are clearly attributable to their intrusion a few miles further to the east, for an examination will convince the unprejudiced mind that the causes which have been instrumental in tilting the slates from their former position in the interior has extended to the eastern edge of valleys and produced the ruptures we there witness.

In favorable situations for observing the intrusive character of the recent group, as in the canoñs through which flow many of our streams it is there found that the porphiries which he superior to the primitive rocks, and have had their origin from contact with igneous rocks in an incanderescent state, as well also as the trapean rocks adjoining, are broken through the sedimentary rocks above them which are still unchanged.

Another fact of interest, and having an important bearing on this part of our subject is found on the west borders of the great valleys and in the Coast Mountains. From all the testimony in our possession at the present time relative to the sedimentary rocks which dip under the valleys of the Sacramento and San Joaquin, we are induced to behave that those which occur on the east border are of an age cotemporaneous with those on the west, and in addition thereto a group is found which evidently belong to a still later period. We have in these mountains then, a corroborative evidence that the disturbances produced by the intrusion of igneous rocks with which the quartz is found in connection has occurred during a comparative v recent period.

As these rocks have forced their way to the surface through all the species that he above them, they can be considered in no other light than having an age posterior to most of the tertiary rocks within the State, or the northern and middle parts of it; and cotemporaneous at least with the lower portion of the miocene period. Under these circumstances it is not to be wondered at that gold may be found in San Francisco or Contra Costa, as the geological formations which have developed it east of the great rivers, are found also in the mountains to the west, though not to the same extent.

The disturbance of the recent sedimentary rocks of the Coast Mountains, and the character of some of the intruded masses that has produced the tilting and dislocations, their identity with the stratified rocks on the eastern border of the great valleys, leads us to the conclusion that the causes of uplift which have been found among the latter, were continued partially to the coast in the same period. With respect to the agents that played an important part in these turbulent periods, there can be but little trouble in their discrimination, and ample testimony is found to identify them with the recent group of igneous rocks under consideration, and if these conclusions are correct, the character for permanency of these views is beyond all cavil or doubt.

Future investigation may disprove this position, but until it is made evident that the veins of the recent group have been disturbed by other and more recent vulcance agents on either side of the great rivers, we can regard them in no other view than being among the last of an extensive series of disturbances which have operated principally through a large portion of the west flank of the Sierra Nevada at a comparatively recent period in the geological history of this part of the continent.

The metalliferous character of this group is in no way inferior to that of the older ranges of these rocks; the proof of this rests in the fact, that some of the best placers yet found in this country are included within its boundaries among the alluvium and drift deposits of the tertiary epoch. The gold-generally found in these placers is of that character known among the miners as "rough or recent gold," having suffered but little from attrition by water; but it is not unfrequent to find the recent metal associated with that which has been much worn by attrition, and the two qualities thus appearing in the same placer range, can be regarded only as having different origgins and ages. It would scarcely appear reasonable to suppose that two pieces of metal driven from the same source and subjected to the same action, should present smooth and rounded surface in the one, while its fellow beside it shall retain all its angularities as though just detached from its original matrix.

With reference to the older group of these vents there are features manifest which are both interesting and important, when we consider the immediate position of the recent group, to those of the older where both are found in contact. It has been remarked in the preceding pages that the veins of the older series have disturbed the greenstone below and the granite above only; a casual examination of the district in which these veins occur, would convey to the observer an idea that a

### CHARACTER AND POSITIONS OF THE OLDER VEINS BE-LOW THE SURFACE.

dike has thus far proved equally metalliferous with the primitive setts.

Under this head will be concluded all that we have to say upon the subject of gold mining in this State at the present time, and as the largest proportion of the mines of the State are situated on the older group of the quartz, the remarks that follow will be confined principally to that series.

In the northern part of the State,^{*} the granite rocks in which these veins are situated upon the surface, have been found to be underhed with another class of igneous rocks, which, from their nature and *presumed* age, it was feared might have so disturbed the "setts" as to render the successful prosecution of mining a doubtful project, and injurious speculation from this fact, have been indulged in to an extent that at one time threatened to destroy the well merited confidence which the discovery of these veins had induced from the outset; and for this reason no hitle degree of interest has been manifested both at home and abroad in relation to their future prospects.

Had those speculations which have been founded on presumptive evidence only, been confined to the sphere to which it legitimately belonged, and divested of the over-anxious fears expressed and manifested from abroad, the parties most directly interested would have suffered less inconvenience by loss of confidence and credit, which the voluntary conservators of our good in distant lands have been the means of inducing, and the public mind would have been unbiassed but for the opinions of men who should have had more discretion than to have hazarded their reputation on such premature evidences as they must have been possessed of at that time.

It is scarcely a supposable case, that men thousands of miles distant should be found adequate to judge correctly of the value of metaliferous districts, having never seen the sections alluded to, or even before the veins were known by the partics engaged in opening them. Elaborate discussions based upon presumptive analogy, may subserve the purpose of pleasing popular assemblies, but they will be found unteuable and useless often, when applied to practiacal and systematic operations.

Mining exploration within the past eighteen months, has added much to our information relative to the position of inetallic veins of the State, and the rocks with which they are associated. The granite series has

* North of the Consumnes River.

been closely investigated, and in several of the mines the workings have been carried entirely through this rock, and contrary to the anticipations of the incredulous, the setts have not been throun at the point of contact with the inferior rocks. Thus far the depth of the granite series has not been found to exceed a depth of but little more than one hundred feet, and in almost every case where shafts have been driven, either on the vein or beside it, the rock has been found in a highly decomposed state, thus presenting but little difficulty in passing through it. There are, in some localities, many small veins running out at different angles from the principal "setts," into the surrounding granite, and when thus appearing in the inverting rocks, marks of dislocation are observable. These interesting features define most clearly the energy and extent of the supporting and injecting forces from below, at the date of the intrusion of the veins, and the angles which the small cross-courses make with the main "setts" from which they emanate, shows most conclusively that the fracture of the superincumbent rocks must have been extensive. Another and a striking feature is also to be observed in this particular, which is, that the small threads found in the granite have a greater power when they enter the greenstone below ; thus indicating that the intrusive dikes spent themselves principally in the superior granite above.

The entire mass of the granitic rocks in the vicinity of the quartz, is of a loose and incoherent texture, from the surface to the lowest point yet reached, and when brought from the greatest depths the same general characteristics are found to prevail throughout. It presents a crumbling, reddish and purple hue, at times faintly spotted with white, its felspathic constituent thus imparting a porphyritic appearance to considerable quantities. When damp it is somewhat clavey, in the dry state, after exposure to the air, it is easily crushed in the hand, giving the greasy feeling of some of the talcose minerals. These peculiar features may be best examined in and about the towns of Nevada and Grass Valley ; for here they extend over several miles, and the extent to which mining operations have been carried in these sections, renders an examination of all the different phases that are presented in this class of veins, both easy and convenient.

Immediately below the granite, the greenstone is found underlying this entire section of country, in every instance in which the granite has been perforated, this rock has been found beneath, and when first met with in descending is much broken up, and the fissures filled with foreign infiltrations from above. The trap rock has a blueish-gray and greenish color, often highly charged with pyrites; the veins on entering this rock change their color from the deep reddish-brown, which they maintain in the granite above, and the cavities filled with the peroxide of iron which has resulted from the decomposition of the pyrites it originally contained, to a clear, white or semi-translucent miteral, holding considerable quantities of cubic and rhombic crystals of pyrites, which are more or less auriferous. In some of the trapean rocks arsenical pyrites is met with, but this latter is much more common in the southern districts, and on the forks of the American River.

In every mine throughout the northern districts, in which the greenstone has been reached, *the veins have penetrated this rock*, and in no one instance thus far is it found that the vein has either been *pinched or faulted*, but the reverse is true, that every sett has increased in power the deeper they descend. Of six companies now in successful operation in Grass Valley, all of them are obtaining their ores from the greenstone, in larger quantury and better quality than was found to be the average in the granite above: on Deer Creek it is the same, and but two mines in this district still continue in the granite, viz:—the Illinois and Gold Tunnel mines, the lower gallery of the latter is within nine feet of the greenstone, with an increasing power in the "sett" at the point of working. In the counties of Butte and Shasta, the same fact prevails, and in each of those mines, which have entered the trap there has been no diminution in the power of the vein or qualities of the ore.

The depth to which some of these veins are found to enter the greenstone has been fifty-five feet, at the present time, and at this depth into this rock they bear all the reasonable evidence of continuing to an unlimited depth, and being of more recent date than their investing series. The greenstone in close proximity to the dikes is found much shattered and disturbed, exhibiting evidences of displacement subsequent to fracture, the inclination of the disturbed masses corresponding to the dip of the vein, the line of fracture form angles of fifty to seventy degrees to the dip of the "sett." and as high as forty in some cases with the horizon; this gives a stratified appearance to these rocks: this peculiar feature is obserable at the Osborn Hill Mine, and is indicated by the heavy lines in the sketch of its transverse section. At this mine may also be observed the other peculiarities before noticed, the highly decomposed and broken character of the upper part of the greenstone of seventeen feet below; at the Lafayette and Helvetia Mine, similar features are to be observed of the semi-stratified appearance of the greenstone, caused by the intrusion of the quartz dike through it; the entire length of the adit level of this mine is driven entirely through this rock a distance of about eleven hundred feet.

On Deer Creek, five miles north of Green Valley, we find a material change in the relative position of the metallic veins to the investing rocks, at the Gold Tunnel, as before remarked, the "sett" is exclusively in granite, while at the Wyoming Mine, one and a half miles below, the "sett" is situated in the greenstone inferiorly and the slate above, while in the adjacent mine above the Wyoming, slate and granite in the middle and greenstone below is the order of arrangement. At this mine may be observed one of those interesting features noticed in the concluding paragraphs of the Recent Group, and when we compare the accompanying sketches of the Osborn Hill and Wyoming, a sufficient illustration of the relative ages of the group will appear. The present working "sett" of the latter mine is protruded through the primitive rocks, and also through the slate above them, and from its dip it must pass through older veins at a depth probably not exceeding four hundred feet below their present level. The slate which hes superior in this mine is evidently of the same age as that occurring among the foot-hills toward the valley, and as the sketch of this mine illustrates, the vein passes entirely through them; the dip of this vein is forty-three degrees east, while those of the adjacent mine above varies from thirty-two to thirty-eight degrees. It is not surprising that a recent "sett" in passing through the cross-course of an older vein, or through a part of a primitive vein, should produce valuable deposits of metal which has taken place in this mine in several instances, and it serves for an illustration of the principle advanced in the preceeding pages, that the recent veins were equally metalliferous with those of the primitive series, wherever and whenever found in this State.

From the facts thus far presented to your consideration respecting the known position of these rocks in the northern part of the State, some evidence at least exists, that those years thus far opened are now proved to have cut through that suite of igneous rocks which heretofore have been supposed would destroy their continuity to any considerable depth below the surface. Already has the establishment of this point exerted an influence which is beginning to be strongly felt, and is restoring that confidence in gold mining which it long since lost. More capital has been invested within the preceding four months in this branch of employment, than in the entire time which has clapsed since the general suspension of these operations. From the developments which have been made relating to the permanency of their character within the past year, individuals are fast becoming satisfied that the metallic veins of this State merit that confidence which is fast returning. If other testimony is required than that already cited of the almost certainty of their continuation to unlimited depths, it will become necessary to search out some other formations than those acknowledged to be the foundation on which rest the superstructure of this teraqueous sphere, for it is evident if facts have any weight, that they have disturbed the lowest of all known rocks.

It may be argued that the shallow depth, fifty feet into the greenstone, is not positive, but that these vens may be faulted by more recent volcanic intrusions below this point. This is possibly true, but at the same time, is there any good reason for such a supposition when no evidence of such disturbances are observable above the surface in their vicinity, and when those intrusive rocks are not to be found to depths of two or three thousand feet below the summits of those ridges on which these mines are located in many instances. There are many deep gorges among our mountains which exhibit the character of the rocks composing them to the depths above named, and on examination of their structure will convince an unbiassed observer of their primitive character. Among these gorges it is not unfrequent to find the quartz veins extending from their bottom to various hights, ranging as high as six hundred feet in every instance in which these voins are met among the rocks in situ. They possess their greatest power at their lowest point. In one instance I well remember having traced a dike of this rock from the river to the highth of thirteen hundred feet, a drawing of which is still in my possession; the "sitt" thinned out to small threads at this hight, with a diminishing power from the base of the hill to the summit; this vein passes through greenstone and porphyry, granite and slate, successively, until it finally spent itself among the latter. intrusive dikes are found to increase in power as their distance below the surface increases, we may reasonably conclude that they may continue to a depth below, equal to that which may be found above, in a case like the last one cited, provided the rocks beneath the lowest point at which it is observable continue of the same character.

Abundant examples of this character are to be met with throughout our mountains, and with such evidence before us, the character of these metallic veins for permanency must be placed beyond suspicion or doubt, and our testimony on this point extends much beyond any that has, as yet, been adduced. In the County of Calaveras, an extensive dike, two miles in length, has been laid open in such a manner that a vertical depth of eight hundred feet of the vein is now exposed to view.

The dike cuts through two ridges, which separate two streams of water, and the companies located on these streams have sunk their shafts to the depth of over one hundred feet, directly under the beds of the creeks, and have driven their gallerys each way untill within a few feet of each other: the vein in one shaft has a power of thirty-seven feet, but in no point on the "sett" is it less than five, in each of the five inners located on this vein, the power of the "sett" has uniformly increased the deeper they have descended. In this case we have a thorough examination of one, at least, of our metallic veins, which will compare with some of the operations in other countries, and we may deduce some safe conclusions respecting their probable stability, if depth below the surface becomes an essential requisite to establiso that point.

The rocks through which these veins pass are principally of the talcose series, with greenstone, hornblende schists, and sychite, in the immediate vicinity; the dikes have cut through all of them in succession without having suffered any deflection from that parallelism which must have ensued, if any of the rock with which they are found in contact, had an age posterior to the dike themselves. This district is particularly noticed in connection with this part of our subject, for the purpose of exhibiting the stronger probability of permanency in the quartz veins of this country, for the reason that if disturbance in their position is likely to ensue in any part of this State, it would be likely to occur in these sections, as the effects of recent volcanic action is more prominent throughout the southern portions of the mining districts than any other part of the west flank of the Sierra Nevada.

From what testimony we have in our possession relative to these veins, it seems but reasonable to conclude that their integrity is perfect, or as nearly so as can be reasonably expected considering the short period which has been employed in developing their true character, and that the confidence which they formerly possessed was well grounded; all subsequent examinations have only tended to confirm this belief in the minds of those who have carefully and diligently studied this subject. The present condition of our gold mines, their flourishing state and prospective value, based on facts as now developed, most clearly indicate their unportance, as an industrial pursuit and one destined cre long to form one of the leading interests in the economy of the State; and as such it would seem that all prudent measures to develop farther their extent and value, and place them upon that footing before the world which that value and importance demands should be used, either through the State or General Government, and through them promote such measures as will prove an inducement to more extensive and permanent operations than has yet been done.

In concluding this part of the report, and in connection with the magnitude and importance of perhaps a somewhat exciting principle in relation to it, I would beg leave to call your attention to a point on which there has heretofore existed much diversity of opinion, which not unfrequently has engendered angry discussion and beligerent feeling in a large proportion of our mining population. The experience of the last three years has elucidated the fact most clearly that the two mining interests of this State cannot be governed by the same rule of law in all cases, and prove alike advantageous to both; it is therefore suggested whether some method more congenial to this interest may not be adopted, that will favor the occupancy and improvement of the metallic veins of this State, giving at the same time widest scope and protection to all at present engaged, and those who may wish hereafter to enter upon those pursuits.

### PRESENT GOVERNMENT OF METALLIC VEINS.

Before entering upon this part of our subject I will state, that throughout every part of the mining counties, which it has been my fortune to visit, in my examinations of previous years, and up to the present time, the subject of needful protection to capital investment and labor in this branch of mining, has been fully and unequivocally expressed by those engaged and interested in it, and by a large portion of those engaged in placer mining, having no direct connection with the former. And it is at the solicitation of nearly *energy individue* engaged in the pursuit of mining on veins, that the subject is presented your consideration at the present time. A wish has long since been expressed, and urged through all the various channels of communication, that the present tenure by which this species of property is holden and conveyd may be changed in such manner as may render available capital investments, which must be largely employed in order to develop those sources of wealth and insure their occupancy.

It is perhaps a questionable point whether the State government is vested with the power to code and convey title in fee to lands containing the precious metals, even were that title absolutely required from the nature of existing circumstances; but whether her jurisdiction in the case be sovereign or not, she legitimately possesses a conservative jurisdiction over such lands, and through that power, as a member of the great confederacy, may exert an influence to obtain such modifications of existing laws of the general government, as would conflict with the common interests of her citizens, or of those rules and regulations temporarily instituted by the State, which by their present action, have a tendency to cripple and reduce her otherwise available means of revenue.

Under this form of the question it becomes a matter of some importance to consider, whether the entire interests of the State would not be materially and beneficially affected, by placing such lands as are under its conservative influence in a position that would be likely to yield a revenue from their occupancy, and which at the same time would yield an adequate security for the investment of capital to be employed in their development. A system of law that would induce a more extensive occupancy than that now existing must insure, as a resultant, a corresponding increase of revenue, thereby reducing taxation on the great mass, render less burdensome the support of the State government.

A course of action that would accomplish this end, and at the same time prevent that result which it has been the careful study of the representatives of the people to guard against, and whose every effort has been directed to preserve to the people the most liberal policy in the acquirement of wealth from the varied and prolific sources presented in no other country than this, must be unobjectionable either to the miner or merchant.

A strong objection has been urged against the sale of mineral lands, and justly too, as in this case the title must pass into the hands of private parties, which in most countries has proved objectionable in many particulars, and a course of this kind could never meet the approbation of a large majority of our population, in the present state of our information. In all other countries as in our own, the title to mineral lands is vested in the crown, or general government, (with the exception of Great Britain,) and the title or permission to use or occupy can emanate only from that source, where it properly belongs. In all countries where mines of the precious metals have been found, different policies for their government have been pursued, but as yet that policy which has been the most liberal, and at the same time protective of private rights, is found to have exerted the widest and most beneficial influence in their developement and occupancy; under such a system it is impossible for it to do otherwise than prosper, and the experience of nearly three centuries have gone to substantiate that fact.

There can be no possible objection to the *general principles* on which our present system is founded, it is the same that made Spain and Mexico what they were and are, and one that with these countries has stood the tests of time, the best proof of its utility and universal applications. Throughout all the political changes that have convulsed and shattered the civil codes of these governments, no change or alteration of a restrictive tendency has been made in the Ordinances des Mineria. For the last fifty years no change that in the least has affected its vital features, except to render them more liberal and congenial; its dictates with them are as sacred as their holy creed, and to molest or change its principles would be regarded as equally sacreligeous.

Under that system individual rights in mines are scrupulously respected, and strict non compliance with its requisitions are followed by a reversion of party rights to the crown, from which only can a similar title be obtained by others wishing to occupy and improve.

The history of mining proper throughout the world, has taught us that it is impossible to pursue that business to advantage without heavy outlays of capital; this applies equally to mining for silver or gold; the great amount of labor and expense attendent in opening a mine is the cause of this, that branch alone often being the work of years, before the reduction of any of its metals take place whereby any return of profits can be realized. We are not wanting in illustrations of this kind, they are as wide-spread as the mining operations of the world; and if more definite examples of this fact is required than the general history of this branch of industry, we need but to refer to the superficial operations of our own State heretofore, to show that limited means cannot succeed in gold mining, though the veins producing the metal may be (as they frequently are in this country,) exceedingly productive.

Our citizens embarked in this delusive speculation in a most inconsiderate manner. The results that followed from their earlier operations are too well known : the capital at their command, being small, was expended even before their veins were opened, and this great lever of success in these operations being thus early suspended, prevented the prosecution of the enterprise to a successful termination, which would have ended in profit in place of loss.

The fault, "if fault there be," lay at the door of misguided apprehensions, induced by flattering reports of results which had flowed from hasty examinations, but not in the veins themselves; as these were dumb, and unable to speak for themselves, until men of larger means developed their capabilities, the cause of failure was attributed to a want of metal in the lodes; hence the distrust which has up to the present time attached itself to this branch of mining, and has resulted in serious loss to the country at large, as well as to the private citizen.

A few have grappled through against all obstacles, who were fortunate enough to command the necessary means, and now have their mines opened and in successful operation. But it has been at the expense of heavy outlays of capital, and nearly two years of industrious application and hard labor; the results which they have produced has been the means of fixing on a permanent basis, the character of these mines, which it will be difficult to affect injuriously hereafter; and their integrity as lucrative employments, and safety for capital investments in themselves, is questioned by none who are conversant with their present condition.

Notwithstanding their acknowledged intrinsic value, there is an incubus resting upon them, which prevents, and must still prevent, their more extensive occupancy, and until removed in some manner, will stand as an insuperable obstacle to their future progress. This rests in the doubtful and uncertain tenure, by which these mines are held, being subject, as they are, to the government of the majority of the people in the district in which they are located, and whose interests directly considered, are both unconnected and foreign, though following a profession similar in some respects to that under consideration.

The position of the Placer miner, and those engaged on veins, is different in many respects. In the case of the former, there is but a comparatively small amount of capital requisite to pursue his business advantageously and successfully : in the other, experience has fully demonstrated that he cannot pursue his business successfully without large expenditures. In the case of the former, the extraction of gold is conducted by the simple process of washing ; in the other, it can be extracted from the gaugue often only by complex metallurgical processes, and subjected even then to much uncertainty, and, at times, loss—requiring what the Place does not, the employment of men who have made it the study of their lives, and the use of means mechanical and scientific, which do not come within the requisition of the former, to conduct his operations to a successful issue.

The operations of the placer miner are generally limited as to time, seldom exceeding a year in the same locality, on his removal his interests in his former residence ceases; in the case of the miner engaged on veins, he finds that his operations must be continued through a series of years in order to secure a fair remuneration for his labors, and if he removes to other parts of the State, his interests in the locality he left does not cease, as his capital investments still remain and continue a permanent source of revenue to the State and county in which they are located. The implements of the placer miner are few, and easily obtained or disposed of if he wishes to remove but, it is widely different with the other. He is obliged to obtain expensive machinery to obtain profitable results from his labors, and heavy sacrifice is often the attendant, if it is his misfortune to fail in his operations from any causes either natural or artificial.

The effect of placer mining in all parts of the world has been, to produce a wandering and unstable community, no better example is to be found than in our own State; it is a true illustration of what has occurred in other countries whose features simulate our own; and to remedy this has been the aim of our State government almost from its earliest foundation; how far its efforts have been attended with success its present history will clearly elucidate. The attempt to induce a permanent settlement in the mountains can be said to have partially succeeded only, and this has occurred in those instances where the parties thus locating have been enabled to avail themselves of interests that would partake of a degree of permanency for a series of years; their titles to improvements on the lands such persons occupy, being retained only by the law of sufference, subject to the decrees of the majority residing in their vicinity if found to be auriferous.

On the broad platform of "equal right and equal privilege," which has been the governing principle of this State in its most extended sense from its earliest occupancy, the dim outline of a desire to establish permanency in the settlement of the mountain districts has been manifested, and at the present time it has become a distinguishing feature in a large portion of the mining population, in mining employments it is equally apparent as in agriculture; among the most stringent advocates of a "masterly inactivity" in regard to the government of the mines, two years ago, are now to be found men equally earnest in their advocacy of vesting rights that shall partake of the character of permanency, and protective where his operations require investments, to secure competency and reward for his labours. Experience has taught us that necessity, if we would foster those employments which it has been our privle to boast, and where no subversion of those fundamental principles on which our laws are founded can take place.

In every county of the State where quartz mining has been conducted this will be found a striking feature in each and all of their operations, and has been particularly manifested in some of the northern counties, where more stringency in the enforcement of mining laws of former years existed, than probably any other part of the State; the effects of this course of action was equally manifest abroad, in the Atlantic States and Europe, when the construction of the present mining code was published in those countries. In one of our northern counties a system has been founded on this code which under certain conditions, (consisting of a given amount of improvements only) conveys a title in fee to all intents and purposes; and another by which parties have the right of holding all that they may be able to purchase. This course of action among miners themselves must be viewed as a plain and clearly defined wish, on their part, to extend over the country a system of government that shall prove alike conducive to the enhancement of these interests and the public welfare, and offer by these means inducements for the investments of capital from abroad; its effects would prove beneficial inasmuch as every dollar of capital thus invested would become so much available means of revenue and serve to betain a much greater amount of the gold extracted from our hills, within the State.

From the nature of gold-mining proper, it results as a consequence almost, that those who engage in it, must become permanent settlers, as their operations if successful become the work of years instead of a few months, and their investments, when made, are done with that view. Under these circumstances does it not become a matter of correct policy to separate the interests of the placer miner and those engaged on veins, in such a manner that those engaged in each b anch may enjoy that liberty which the placer miner now possesses, and which is enjoyed by the other only by the sufferance of the former in the largest majority of cases; giving to each the right to enact those laws, which they in their good judgment will find most conducive to their seperate interests, and which from their nature and attendant circumstances are very dissimilar and foreign.

The jealousies and feeling arising from the suspicion entertained by each other, which has heretofore and at the present time exists to a considerable extent, in these two branches of industry would, by the above course be done away, and a much greater degree of stability in mining proper would be the result, (which under the present arrangement of affairs can hardly exist) in which its prosperity to a great extent is involved : its influence would not only be made manifest here, but it would give a confidence abroad in these operations which they do not now possess, and to which we must look for those means by which we shall be able to conduct gold-mining successfully and with profit.

The entire separation of these interests would be regarded abroad as the opening of a new era in the mining history of this State, fraught with beneficial results, and involving a vital interest in her future economy, advantageous alike to the revenues of the State and to the people; it would remove that serious obstacle at present in the path of its progress, viz: "the insecurity that now exists for invested capital, from the motative policy heretofore pursued," and restore that confidence which such a policy has in a great measure been the means of destroying.

The mines of this State are of a character and value, which if placed in a proper position, will invite investment from abroad, to an amount little less than twenty millions of dollars within the next eight years; this presumption is founded on the fact that more than one sixth of that amount is at the present time in active operation in this country, and its largest proportion has been derived from American sources, during a portion of that period when public confidence had been shaken in regard to their value. Negotiations are now pending which involve nearly one million more of capital investment in this branch of mining, nearly one half of which is in the cities of Boston and New York.

Considering the disadvantages that now surround them, as shown from the facts relating thereto, they can but be regarded as the prolific sources of wealth in this country; and every inducement consistent with the liberal policy adopted in the government of the placers, is equally applicable and should be extended to them.

The following pages will contain a brief notice of some of the principal mines of the State with a list of those in successful operation and their locations. Also a table of Barometric Altitudes; and Catalogue of Minerals obtained during the tour, to be placed in the State Cabinet.

## LA FAYETTE AND HELVETIA MINE.

This company is located at Grass Valley, Nevada County, and the sketch of the workings of their mine is taken from the La Fayette Hill vein only about two miles south-west of the town. The length of the vein at the above hill is eleven hundred fect; it has a curvilinear course, varying from north-east to south-west; its mean, however, when marked on a right line is north, ten degrees east. The dip of the vein is forty-one degrees east, having a power of three feet at the depth of thirty-four feet; at this point the ore was of a poorer quality than at any other point. The depth of the present working is about 55 feet, and here the vien increases in power and value, being equal to three feet eight inches, and yielding in a large amount of ore, forty dollars per ton. The vien, when discovered, was covered with yellow brown alluvium for five feet, and passed through this and decomposed granite of a purple color fifteen feet, when it entered a mass of decomposed and fragmentary greenstone of five feet depth, thence into compact rock of the same character and continued to the depth of fifty-five feet.

Adit level is 1100 feet in length, exclusive of tram road for conveying ore and attle from the mine; it extends through the whole length of their claim. At their present depth all the ore is obtained by blasting, which adds much to the expense of the mine. The cost of obtaining ore from this mine is from seven to eight dollars per ton at present rates of labor. The company have about 900 feet of vein in Gold Hill, which requires no blastinging and is obtained at the mill for five dollars per ton.

The La Fayette Hill vein was much decomposed for the depth of thirty feet, and contained a large quantity of peroxide iron and free gola; after passing into the compact greenstone the vein becomes quite firm, and highly char_ed with pyrites investing gold; the crystals were white and well-terminated, generally perfect in form. In some parts of the mine, galena is met with and gold imbeded in it; an examination of this latter mineral has not been made for silver, but from its appearance it is quite probable that it contains this metal. The matrix of the ore is a bluish white and translucent, in pieces of one inch in thickness; the blue tint of the vein in the vicinity of the shafts is due in a great measure to finely divided particles of lead.

The capital of this company is about three hundred thousand dollars, and their receipts in four months has been as high as \$98,000, but their average is near \$10,000 per month; the mine has yielded with great uniformity since the commencement of operations, and bids fair for future success.

This mine has two Batteries and when in full operation is capable of reducing forty tons of ore per day, but one battery is run at a time as the amalgamating apparatus is not of sufficient capacity at present to dispose of that amount of ore judiciously, the amalgamating instruments consist of Cram's Cylinder and Berdan's Amalgamator, in the latter about fifteen per cent of the gross amount is saved alter it has passed through the other instruments; this arises from the fact that Berdan's instrument possesses a levigating power from revolving balls in the instrument which gives a new surface to the material passing under them.

### GOLD HILL MINE.

This mine is located in the town of Grass Valley on the first hill to the west of the village. The mile was first opened in 1851 and worked to a considerable extent and profit, subsequently it passed to the hands of the Agua Frio Company under the superintendence of their agent Mr. Atwood in whose possession it now remains; after an examination of the mine the old method of working was given up, and a new system of operations entered upon in order to tan the vein at the lowest possible point and at the same time afford easy transit ty the reduction works and drainage to the mine. With this view an adit was commenced about fifteen feet above the level of the creek which flows in front of the town, and carried west through the base of the hill for a distance of seven-hundred feet, cutting through allavium and decomposed granite most of the way, at the west end of the adit which cuts the vein nearly at right angles, the shaft marked A in the longitudinal section was intersected at a depth of ninety feet below the surface; from near the ninety feet shaft a level has been driven to the north on the strike of the vein about sevenly feet marked, D, also two other levels east of it, E, F, which intersect the north crosscut D of the ground plan; a winze has been sunk below the water level sixteen feet marked H, of the longitudinal section; this disposition in the working of the mine affords many advantages in the extraction of the ore and attle and easy communication with all parts of the mine and surface, and the intersection of the shaft A produces ample ventilation. The vein intersects the greenstone at the bottom of the air shaft, and as in the case of the Lafayette has cut completely through it; increasing in power as it enters this rock, about one thousand tons of ore was in the yard at the time I visited the mine ready to pass through the reduction works. From the end of the long adit a tram road four-hundred feet in length passes to the mill on which by mule power, the ore is conveyed from the farthest part of the mine. The ground plan exhibits the crosscuts and levels and their connection with the mill.

The strike of the vein is north and south diping east at an an angle of 24 degrees, with a vein whose power at ninety feet was nearly three feet; the transverse section is shown the air shaft entering the greenstone and intersecting the vein, with the increase in power of the vein from the surface to the lowest point worked. The ores in the greenstone differ in no particular from those of the Lafayette, with the exception that none of the plumbic sulphuret was observed at this mine though the vein has much the same blue tint. The reduction works of this company were not completed in November and no opportunity was afforded to witness their process at that time; it was expected that their machinery would be capable of reducing over one

hundred tons of ore per day, which from its appearance would not be a large estimate, it is probably the most powerful machinery in this country and will compare with any in Europe.

The operations of this mine are looked for with considerable interest at home and abroad, as their capacities for reduction are much more extensive than any hitherto put up in this country.

### OSBORN HILL MINE.

This mine is located two miles east of Grass Valley, it has been opened on the course of the vein four-hundred and fifty teet and from sixty-five to seventy feet in depth. Vein strikes north and south dipping east at an angle of forty degrees; the transverse section shows a depth of sixty-five feet; the shaft was carried through twelve feet of alluvium, seven of clay slate, seventeen of a much broken and decomposed greenstone, and fifteen feet of compact rock of the same character; total depth including winze I is nearly seventy feet. The vein at this mine has dislocated all the rocks above it and possesses that half stratified appearance as in the Lafayette, arising from fracture by the intrusive vein. The power of the vein is about three feet at the depth of sixty-five feet. In the longitudinal section, the levels which have been driven are given to scale and their different lengths are found by reference to the sketch. This mine has been one of the most flourishing and profitable of the State and has been conducted with much prudence and economy.

### WYOMING MINE.

This mine is situated on the north bank of Deer Creek, about two miles below the town of Nevada; its altitude above the Creek is two hundred and forty feet, and the higher parts of the outcrop on the line of the vein will reach nearly or quite three hundred feet above the same point. An adit was driven about two hundred feet through clay slate, which intersected the vein at this point, at an angle of about twenty-seven degrees. From this, two levels have been driven on the vein, of one hundred and twenty and fifty feet each, and a winze of twenty-five. The vein dips east with an angle of forty five degrees, having a strike north and south, with a power of three fect. Fifty feet below the upper adit, another was commenced and carried to a hundred and twenty-five feet, intending to intersect the vein at one hundred feet below the surface of the shaft F; at seventy-six feet the greenstone was met, and the adit carried fifty feet into it. At the junction of the slates and trap, the former are much changed, evidently from the effects of heat, while at the junction of the slates and vein, above this, they have again suffered from the intrusion of the latter.

On the south side of the hill the vein crops cut through the trap two hundred feet below the summit, with an increased power, leaving no room for doubt of the permanency of its character. In this mine one of the recent veins has cut through from the Bunker Hill Mine, east of this, which produced a valuable nest of ore; the dip of the principal Wyoming Vein, if it holds its present inclination, must cut the older lodes at the depth of four or five hundred feet, and its situation is such that ample drainage and ventilation can be obtained.

### GOLD TUNNEL MINE.

The mine bearing this name is located half a mile west of the town of Nevada, on Deer Creek, and has been worked successfully since its discovery in 1850 or '51. It was originally a placer claim and was found while working the banks of the creek for placer gold. Soon after its discovery an engine was erected upon the ground and the vein opened; it was commenced by driving an adit level on the vein, which was subsequently abandoned and a new level commenced at the point at which the present reduction works are situated.

The length of the present level is three hundred and seventy-five feet, and has an inclination of ten degrees from the horizontal line; three winzes have been drove on the lower side of the adit [L. F. II.] which are respectively thirty, twenty and twelve feet, with a level of twenty-five feet between the winzes F. and H. On the opposite side two cements of fifty feet each, and a gallery connecting both, of one hundred and twenty-five feet, with a corresponding one connecting the winzes on the lower side. All the ore included within the dash lines has been stopped out. This vein is situated in granite, and thus far has been loose and incoherent; this is attributable to the large amount of pyrites contained in the vein, as is shown at any point where the quartz retains any solidity; the gold is in a free state in the gossan, of which there are large quantities throughout the mine; the operators on this vein have been eminently successful, and their mine bids fair to continue valuable. The strike of their vein, north ten degrees east, dipping east ten degrees south, at an angle of thirty-eight degrees.

#### ILLINOIS MINE.

The Illinois Mine is situated directly opposite the Gold Tunnel on the south bank of Deer Creek, and is a continuation of the same vein, it has all the characteristics of the former throughout. The length of their upper gallery is four hundred and fifty feet and that of the lower, two hundred and fifty; two cross-cuts have been driven which connect the galleries at C. D. each fifty feet in length.

### JONES AND DAVIS MINE, HERBERTVILLE, CALAVERAS COUNTY.

The mine of this company is located on the east side of a small tributary running into Amidor Creek, the latter passes through the town of Amidor one mile north of this mine; the top of the whim-shaft, C, is one hundred and forty-five feet above the level of the creek, and ninety feet below the outcrop of the vein on which the shaft, C, has been sunk; at shaft 4 the vein is three hundred and fifty feet above the Amidor, and increases in altitude for half a mile, until it arrives at the height of four hundred feet above the town. The company have sunk two shafts of ninety feet on the vein, and drove two galleries, the upper one A being two hundred and eighty feet, the lower, B, one hundred and fifty feet, and are driving in the course of the dotted lines to run a third gallery at the depth of fifty feet below the point B. Figures 1, 2, 3, are stopes from which they are now obtaining their ore, being conveyed along the lower level to the whim-shaft and thence elevated to the surface; from thence it is conveyed on a tram road 600 feet to the reduction works at its terminus.

The design for future operations is to cut an adit a short distance north of the mill, and intersect the vein at a point which will give a depth of three hundred feet from its highest point to a level with the end of their present tram road, and then stope down from this point, which will not only furnish an abundance of ore, if the vein retains its present power, but materially lessen the expense of its extraction. This will be accomplished in a distance of three hundred yards, and probably less. This mine is very systematically arranged for the comfort of the miner, and obtaining all the ores easily, and reflects much credit on its projectors ; the sketch of the mine, drawn to scale on the spot, will fully elucidate itself ; its convenience of arrangement, considering its local position, will be found equal to all its necessary requirements.

The vein is invested in chlorite and talcose rocks, throughout its whole exient, being nearly three miles in length. On the eastern side of the vein a graphic slate occurs, having a thickness of one or two feet; outside of this a bed of chlorite, from five to ten feet, much discolored by graphite, at times perfectly black and staining the hand easily. On the west side, a greenish chlorite occurs, next the vein, highly pyritiferous and often containing considerable gold; the power of the vein at ninety feet depth is six feet, and has steadily increased from the surface down; its strike is northwest by west, with a corresponding dip cast and south, of fifty-five degrees. The color of the vein is bluish white, with black seams of graphite, giving a ribband-like appearance in the mass; it is highly pyritiferous, and when properly roasted, crumbles easily; some parts of the vein contain an arsenical pyrites, which has an injurious effect in the reducing process, by preventing perfect amalgamation; this is caused by roasting the orcs in contact with charcoal which should not be practised in these varieties of ores.

## SPRING HILL MINE.

This mine is located on Amadore Creek, at the east end of the town and one mile north of the preceding mine. The company commenced operations on this sett in 1851, and have continued uninterrupted since that time; it is located on the same vein as the former, and crops out to the height of 530 feet on the highest point of the hill between Jones, Davis & Co.

Two inclined shafts have been sunk on the vein to about 75 feet below the bed of the creek, at which point the sett has a power of six feet; in its general character it differs in no wise from the mine one mile south, except in the disposition of investing rocks. At Spring Hill the graphic slates which form the gangue are found on the west side of the vein, in place of the east as at Davis' mine. This was evidently caused by an unequal displacement at the period of intrusion of the dike, resulting from the transverse fracture forming the cross course on which Johnson's mine is situated; the resistance being less in that direction at the time of fracture in the incumbent rocks. This cross-fracture had the effect also to throw the intrusive mass from a right line at the time it broke through, for the entire length of the dike, giving it at first view the appearance rather of two sets in place of one which they in reality are. There are many similar features attending the veins of this country, which has created no little confusion in regard to their true position; and of themselves though they may appear insignificant, yet with the miner they involve questions of high importance, and exert an influence either wejudicial or favorable upon his operations, as their position may be clearly or distinctly known.

The study of our system of metallic veins and its correct development, involves some of the most important interests of the State; a correct knowledge of their position is much desired, but as the limits of this report will not admit that examination which they require, further allusion to the subject will be omitted.

All the vein between shafts and to the point E, has been stopped out with the exception of a small body of vein to support the walls of the mine and attle F F. The mine from its proximity to the creek has considerable water but is kept free by one of Farnham's double-action pumps placed at the shaft B, while the shaft A is used for bringing the ore to the surface.

### AMADCRE COMPANY MINE.

This is situated on the opposite side of the Creek from the Spring Hill mine, and on the same sett. Their operations have been conducted below the bed of the creek, to the depth of nearly one hundred feet. Shaft D is the whim shaft, 97 feet, and is to the depth of 100 feet, at the bottom of which a 37 foot horse has been struck, all the ore from the lower level A C has been stoped out, the points I supporting the ottle. Reference to the sketch will present its position at the date of visiting it.

The strike of the voin in both the latter, is north by west, diping east 65 degrees.

### RANCHOREE MINE.

Is located one mile north of the preceding, and on the ridge dividing the Amadore and Ranchoree Creeks; their reduction works are about half a mile west of the town of Ranchoree.

The upper portion of their vein is situated 420 feet above the creek; on the vein are three shafts of about 70 feet, and two levels of 110 and 75 feet respectively; they are now driving on the level I, to obtain drainage and easy transit for their ores to the mill; the plan of operations will be seen on the sketch marked by the dash lines. The vein at this lower level gives a good ore, and has the same investing rocks as at the upper levels. The vein strikes north 25 degrees west, dipping cast, with a power of four feet. The investing rocks are talcose slates.

### **KEYSTONE MINE.**

This mine is situated on the arroya leading into the Amadore, one mile below Jones & Davis' mine; it appears to be a parallel vein, half a mile west of the line uniting the latter and the Spring Hill mine; the ores partake of all the general characters of the other two mines, and it is situated 25 feet above the level of the creek. The sett of Jones, Davis & Co. and the Spring Hill are in the high hill east of the workings figured in the sketch for the Keystone Mine.

This vein strikes north 10 degrees west, diping 40 degrees east, with a power of five feet; the investing rocks are the graphic slate and chlorites, as found in all the others in this neighborhood.

### EUREKA MINE, SUTTER, CALAVERAS COUNTY.

This mine is located a short distance south of the town of Sutter. The company have one shaft,  $\Lambda$ , which is used for the whim by which the ore is at present taken from the mine: a cross cut, seen at D, in the ground plan, was carried east 140 feet, intersecting the level, D, and main shaft, from this the gallery, B, was carried south 135 feet, and subsequently the lower level, C, was driven each way a distance of 230 feet.

The mine is in active operation, and they are now driving an adit on the east side of the hill, which will intersect their vein at an angle of 65 degrees to its line of strike, this will be 400 feet in length, and will afford easy and rapid communication with the reduction works. At the end of the adit a tram-road is constructed 2S00 feet, which connects with the mill; the gallery, B, 2, will be connected with the adit in the dotted line, F, of the ground plan.

The vein of this company is in chlorite, and has a strike north and south, dipping east 55 degrees, with a power of five feet; the vein has a riband like appearance in masses, from small seams of graphic slate running through it. The vein contains some arsenical ores, which are highly auriferous.

# LIST OF GOLD MINES

At present in operation in California, with location, power employed, &c.

COUNTY.	TOWNS, ETC.	NAME OF MINE.	LOCALITY.	POWER
Nevada.	Nevada and vicinity	Gold Tunnel.	Deer Creek.	Steam.
"	" "	Golden Gate.	Little Deer Creek.	
**		Nevada.	Deer Creek.	Water.
"		Wyomurg.	"	
**	" "	Wisconsin.	East of town.	
"		Illinois.	Deer Creek.	• • •
"		El Dorado.		**
*1	Grass Valley.	Gold Hull.	West of town.	Steam.
**		Crossett and Collins.	Osborn Hill.	
*		Empire.	Ophir Hıll.	**
44		Freuch.	Union Hill.	
66		Lafayetie & Helvetia		
Butte.	Jamison Creek.	Washington.	Jamison,	"
"	·. ·.	Eureka.	44	Water.
Sierra.	Downieville.	Ariel.	South Fork.	"
Yuba.	Brown's Valley.	Huntley's.	South I OIR	Steam.
Shasta.	biowns radey.	Kelby's.		Cicam.
"	Mt. Washington.	Mt. Washington.		
Siskiyou.	Scott's Valley.	Stents.	Scott River.	Steam.
"	"	Shackelford's.	Scott Valley.	Section.
"	"	Moffat's.	"	Water.
"		Martin's	Humbug Creek.	
Klamath.	Sealey's Flat.	McDermott's.	Hunnoug Orces.	
El Dorado.	Union Town.	Union.	Marthenas Creek.	Steam.
"	Quartzville.	Thomas's.	Consumnes River.	Water.
Calaveras.	Ranchoree.	Ranchoree.	Creek.	"
"	Amidor.	Amido.	Town and Creek.	Steam.
"	Spring Hill		10 WII and CICCK.	"
"	Amidor.	Keystone.	Tributary Creek.	"
	Herbertville.	Jones & Davis's.	44	64
"	"	Lea & Johnson		
к	Mokelumne Ridge.	Woodhouse		1.
	"	'Phoeni"	"	1
**			"	"
"	Sutter.	Eureka.	Sutter Creek.	Water.
"	Sulter.	Anudor, No. 2.	unter Oreen.	Steam.
"	Jackson.	Oneida		Steam.
Euolumna.	Maxwell Creek.		Creek.	
uolumne.	Coulterville.	Maxwell Creek Co.	4	
"	Merced River.	Marble Springs.	North Fork.	
	Mercea River. Mt. Ophir.	Noveax Monde.	Morth Fork. Mt. Ophir.	
mariposa.				
Mariposa.	Quartzburg.	Washington & Georg.		

From this it will be seen that there are thirty-nine mines in successful operation in this State at the present date, twenty-eight of which I have personally visited this season, and my excuse for not visiting the balance. was the lateness of the season and distances, with the time necessarily required to compile this report, being now delayed much beyond the time when it should have appeared.

# Taken by Aneroid Barometer No. 10,811, with the Counties and Localities in which they were taken.

COUNTY.	LOCALITY.	POSITION.		AI TILUDE ABOVE THE SEA.	
Santa Clara	San Jose,	Mansion House,	150	feet.	
.4 .4	Almaden,	Hotel	480	••	
46 44	Mine.		1345	••	
66 6k	Houck's Ranch	Santa Clara Valley,	190	••	
** **	Gilrov's.	<i>a a a</i>	155	••	
"	Mission Peak.		2025	••	
Monterey.	Mission San Juan,		210	••	
"	Rauch Tres Pinos.	Cañada San Benito,	220	••	
"	Pass Santa Anna,	Top of hill,	615	••	
•4	Cañada San Juan.	Four miles south of the above.	300	••	
14	Cañada Las Muertos,	Entrauce,	280	• •	
**	Sierra Gibilan,	Summit,	2780	••	
"	Chupedero,	"	2368	••	
"	Cheloue,		2010	••	
• • •	Soledad Mission,		312		
"	Colediad Inteston,	Hill on road from San Juan to ) Watsonville,	340	••	
San Luis Obispo.	High Ridge,	South Nacismiento,	2460	••	
Alameda.	Mission San José	Portico,	285	••	
"	Sunols Hill.	Entrance to valley,	505	••	
"	" Valley,	,	285		
"	Seven Mile House,	Sunol Valley,	240		
**	Livermore's Ranch,	Livermore Valley,	420	••	
**	Liver hore a manen,	Hill in Pass nine miles from Ranch		••	
6 L	ł	Canada half mile north of hill.	584		
"	Stone House	Bottom of hill, one mile,	680		
San Joaquin,	Elk Horn,	Mouth of Livermore Pass	220	••	
" "	Suddenfield's Ranch.	San Joaquin Valley.	80		
Nevada	Nevada City,	Adams' Office,	1810		
	*Grass Valley,	" "	1950		
Placer,	Auburn,		1080		
A 18001,	Addurit,	Half-way House to Sacramento,	370	••	
El Dorado,	Aurum City,	man-way mouse to sacramento,	1200	••	
LI Dorado,	Mud Springs,	l	1430	••	
Sacramento.	North Fork House,		140	••	
	Sacramento City,	Levee.	39		
Yuba	Marysville,	Levec,	76		
1 uba,	Johnson's Ranch,	Bear River,	1120		
	Journson's Kanen,	Dear Miler,	µ120		

* A difference of fifty feet by observations of Mr Atwood with mercurial Barometer, taken three quarters of a mile south; difference probably in elevation of both places.

Altitudes were taken in the Counties of Butte, Sierra and upper part of Yuba with another instrument, but as it was found not to correspond with the points of departure on my return, the observations were presumed to be incorrect and therefore are not given in this table. Some of the localities in this table have been levelled and their height accurately known, and as the barometric measurements have been found to correspond, they are probably close approximations.

## COLLECTION FOR THE STATE CABINET.

The Minerals found in the attached list will represent the rocks of those sections examined and spoken of in the report.

1. Sandstone conglomerate with serpentine, Water Works, San Francisco.

- 2. Chromic iron, containing Nickel, Panoches, Gabilan Mountains.
- 3. Chromic iron, containing Nickel, San Benito, Canada of.
- 4. Chromic iron, containing Nickel, Alameda County.
- 5. Serpentine, containing free Icaine, Water Works, San Francisco.
- 6. Serpentine seams of Asbestus, Water Works, San Francisco.
- 7. Sulphuret Copper in Quartz. Alisal, Monterey.
- 8. Blue and green Carbonate Copper, Alisal, Monterey.
- 9. Carbonate and Sulphuret Copper, Alisal, Monterey.
- 10. Carbonate and Sulphuret Copper, Santa Barbara.
- 11. Jaspery rocks, Presidio, San Francisco.
- 12. Gangue of the veins, Alisal Mme.
- 13. Gossan, containing Gold, Gabilan Mountains.
- 15. Gold in Quartz with peroxide iron, Washington Mine, Shasta Co.
- 16. Do. do, do. do. do. do. do. do. do.
- 17. Do. do. do. co. do. do. do. do. do.
- 18. Gossan, containing Gold, Gold Tunnel Mine, Nevada.
- 19. Gold in Quartz, Gold Tunnel Mune, Nevada.
- 20. Gold in Pyrites, Gold Tunnel Mine, Nevada.
- 21. Gold in Quartz with Galena, Lafayette and Helvetia Mine, Nevada.
- 22. Gold in Pyrites, Lafayette and Helvetia Mine, Nevada.
- 23. Gold in Arsenical Pyrites. Lafayette and Helvetia Mine, Nevada.
- 24. Gold in Gangue of Vcin, Lafayette and Helvetta Mine, Nevada.
- 25. Auriferous Pyrites, Gold Hill Lode, Helvetia mine.
- 26. Gold and Peroxide Iron, Lafayette and Helvetin mine.
- 27. Serpentine from the Lode, Lafayette Hill.
- 28. Pyritiferous and Variegated, Lafayette Hill.
- 29. Gold in Quartz, Empire Co., Ophir Hill.
- 30. Gold in Pyrites, Empire Co., Ophir Hill.
- 31. Ores of the Greenstone, Empire Co., Ophir Hill.
- 32. Ores Pyritiferous, Empire Co, Ophir Hill.
- 34. Discoloration of Quartz by Gold, Empire Co., Ophir Hill.
- 35. Gold in Quartz, Gold Hill mine.
- 36. Auriferous Pyrites in Quartz, Gold Hill mine.
- 37. Auriferous Cellular Quartz, Gold Hill mine.
- 38. Surface Ores and Peroxide Iron, Gold Hill mine.
- 39. Auriferous Quartz in Crystals, Osborn Hill mine.
- 40. Ore from the Granite, Osboin Hill mine.
- 41. Ore from decomposed Greenstone, Osborn Hill mine.
- 42. Ore from the Greenstone Gangue, Osborn Hill mine.
- 43. Gossan containing Gold, Wyoming mine.
- 44. Auriferous Quartz, Wyoming mine.

- 45. Pyrites containing Gold, Ben Franklin mine-
- 46. Ore from the Greenstone, Ben Franklin mine.
- 47. Conglomerate and Gold, Little York.
- 48. Trachyte, Glass Valley.
- 49. Autiferous Pyrites in Quartz, Mt. George mine.
- 50. Auriferous Pyrites and Sulphur, Mt. George mine.
- 51. Auriferous Pyrites, Mt. George mine.
- 52. Steatite (Soapstone) Jenny Lind Hill (Rocky Tunnel).
- 53. Serpentine, Jenny Lind Hill, (Rocky Tunnel.)
- 54. Asbestus, Jenny Lind Hill, (Rocky Tunnel).
- 55. Cellular Quartz and Gold, Lea & Johnson mine, Calaveras Co.
- 56. Ore from the Greenstone, Lea & Johnson mine, Calaveras Co.
- 57. Surface ore of cross course, Lea & Johnson mine, Calaveras Co.
- 58. Cellular Quartz surface ore, Ranchoree mine, Calaveras Co.
- 59. Aurifeious Pyrites, Ranchoree mine, Calaveras Co.
- 60. Quartz Talc and Gold, Ranchoree mine, Calaveras Co.
- 61. Auriferous Quartz, Jones & Davis' Mine, Calaveras County.
- 62. Pyritiferous Quartz, Jones & Davis' Mine, Calaveras County.
- 63. Gangue investing Lode Auriferous, Jones & Davis' Mine, Calaveras County.
- 64. Surface Ores, Jones & Davis' Mine, Calaverous County.
- 65. Gold in Quartz, Eureka Mine, Calaveras County.
- 66. Arsenical Pyrites and Gold, Eureka Mine, Calaveras County.
- 67. East side of Lode, do do do do 68. Middle of Lode, do do do do
- 69. Average Ores, do do do do
- 70. Graphic Slate, Jones & Davis Mine.
- 71. Veinstone with Graphic Slate, Spring Hill Mine, Calaveras Co.
- 72.DoRoasted,dododo73.Auriferous Pyrites,dododo
- 74. Gold in Quartz, do do do 76. Cellular Quartz, Keystone Mine, Amidor.
- 77. Auriferous Pyrites, do do do
- 78. do do and Gold, Ariel Mine, Sierra County.
- 79. Pyrites in Talc, do do do
- 80. Proxide Iron, do do do
- 81. Calcarious Travertin, South Fork, Yuba.

82. Galena and Gold in Quartz, Tuolumne Water Co.

- 83. do do do do do
- 84. Peroxide Iron and Gold do do
- 85. Auriferous Talc, do do
- 86. Talcose Slate and Gold, Calaveras River.
- 87. Gossan and Gold, New York Mine, Stanislaus River.
- 88. Carbonate Line, Almaden Mine, Santa Clara.
- 89. Serpentine, do do do
- 90. Carbonate Lime in Cinnabar, Almaden Mine, Santa Clara.
- 91. Cinnabar, do do do do
- 92. do do do do do
- 93. Sulphuret Copper, Santa Barbara.
- 94. Carbonate Copper, Carson Hill.
- 95. Carbonate Copper, Grass Valley.