SOUTHERN PACIFIC COMPANY

(PACIFIC LINES)

TIME TABLE

FOR THE

SAN JOAQUIN DIVISION





To Take Effect Tuesday, August 1, 1939, at 12:01 A. M. TO JUNE 17, 1940

PACIFIC STANDARD TIME (120th MERIDIAN)

For the government and information of employes only.

L. B. McDONALD, General Manager. W. B. KIRKLAND,

Superintendent of Transportation.

C. F. DONNATIN

Assistant General Manager.

J. D. BRENNAN. Superintendent.

FRESNO SUBDIVISION

EASTWARD								The second secon			7.4		THE	WE	STWAR)		
	SECONE	CLASS	77-77	FII	RST CLAS	S				Time Table No. 160	. 76	IT CIT		FIR	ST CLAS	S		THIRD CLAS
Capacity of Sidings in Car Lengths	782 Freight	400 Freight	56 Tehachapi	346 Motor	52 San Joaquin	58 Sequoia	60 West Coast	26 owl	Distance fron San Francisco	August 1, 1939	Distance from Bakersfield	25 owl	59 West Coast	55 Tehachapi	345 Motor	51 San Josquin	57 Sequoia	783 Freight
	Leave Daily	Leave Daily	Leave Daily	Leave Daily	202	STATIONS	-	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily				
WOP Yard		1471							201.8	! FRESNO YARD) ;	111.1							
KWOTYP Yard	1.45 PM	4.10AM	8.00PM		12.30 PM	6.50AM	1.00 AM	12.15AM	205.5	TO-R FRESNO	107.4	s 2.40 AM	s 4.05AM	s 7.00 AM		s 3.50PM	s 10.00PM	12.20PM
I P	1.55	4.20	8.10		12.36	7.00	1.08	12.23	209.1	TO CALWA TOWER	103.8	2.30	3.55	6.50	771	3.42	9.48	12.10PM
o Siding P		5 A T T T	f		1115	8	-		210.4	1.3 MALAGA	102.5	-	70.7	f	N. A.		7 /4 1	
18 P	2.05	4.30	f 8.20	53	77.77	s 7.08	Low		215.1	TO FOWLER	97.8			s 6.41		3.33	f 9.39	11.57AM
25 Yard WP	2.15	4.40	s 8.30		12.49	s 7.17	1.20	f 12.36	220.7	TO SELMA	92.2	f 2.14	3.39	s 6.32		3.26	8 9.31	11.47
8 Yard WP	2.25	4.50	s 8.40		12.54	s 7.27	1.25	12.41	225.6	TO KINGSBURG	87.3	2.05	3.32	s 6.23		3.20	8 9.22	11.37
106 P	2.34	4.59	f 8.48			7.34	1.31	1 4 4	231.3	TRAVER	81.6	1.58	3.25	6.14			9.13	11.28
60 P			8.51			7.37	1.34		233.7	CROSS	79.2	1.55	3.22	6.11		19.00	9.10	
94 WYP Yard	2.46	5.11	s 9.00		1.08	s 7.44AM	1.45	12.55	239.1	TO-R GOSHEN JOT.	73.8	1.45	3.15	s 6.00		3.06	9.00PM	11.16
59 P	3.00	5.21	f 9.13		1.14		1.54	1.01	245.6	TAGUS	67.3	1.37	3.08	5.45	The same	3.00		11.06
	1111			100		ARTIC			249.7	TO TULARE TOWER A. T. & S. F. Crossing	63.2	TO MAN TO						
89 Yard P	3.10	5.30	s 9.20		s 1.24		2.00	s 1.08	250.0	TULARE	62.9	s 1.29	3.01	s 5.30		s 2.52		10.57
59 P	3.20	5.48	9.40		The said	William !	2.08	1.19	255.8	OCTOL	57.1	1.19	2.53	5.13		1	图图(1/2)。	10.47
83 WP	3.32	5.55	s 9.55		1.36	905 10 10	2.13	1.25	260.4	i TO TIPTON	52.5	1.11	2.48	s 5.03		2.39	A	10.40
94 P	3.42	6.05	s 10.05			8000	2.20	1.32	266.8	TO PIXLEY	46.1	1.04	2.40	s 4.53				10.22
83 P		6.12	f 10.15		1.47	WEIGHT.	2.30	1.38	272.4	TO EARLIMART	40.5	12.57	2.30	s 4.43		2.28	Larger	11
59 P	3.57	6.20	10.21				2.35	1.43	276.5	RADNOR 4.2	36.4	12.52	2.25	4.35		11	78. 38/	10.07
82 Yard WP	4.04	6.27	s 10.30		1.55		2.42	1.50	280.7	TO DELANO	32.2	f 12.47	2.21	s 4.29		2.20		10.00
59 P	4.14	6.37	s 10.40				2.51	1.58	287.0	TO Mc FARLAND	25.9	12.40	2.15	s 4.18		1179	43 10 BA	9.50
79 KWTP	4.25	7.00	f 10.49	10.32PM	2.06		2.57	2.09	292.6	TO-R FAMOSO	20.3	12.34	2.09	f 4.08	s 7.00AM	2.06		9.40
59 P	4.30	7.05	10.53	f 10.38			3.01	2.14	295.9	SLATER 4.6	17.0	12.30	2.05	4.04				9.35
82 P	4.37	7.12	10.59	f 10.44	2.14	790,376	3.06	2.19	300.5	LERDO 2.5	12.4	12.25	2.00	3.59	f 6.51	1.53		9.28
90 P	4.41	7.16	11.02	10.47			3.09	2.23	303.0	PROSPERO 2.8	9.9	12.22	1.57	3.56	6.48			9.24
59 P	4.46	7.21		f 10.51			3.12	2.26	305.8	SACO 2.8	7.1			3.53	6.44			9.19
80 YP		7.26	11.10	10.55	2.22	4301	3.15	2.30	308.6	R OIL JOT.	4.3	12.15	1.50	3.50	f 6.40	1.45		9.14
No Siding P		7.40.00	611 000	1 1 1 05 11			- 2 25	- 0 1017	311.1	NOME 1.8	1.8							0.0011
Yard BKWOTYP		7.40 AM			s 2.32 PM			s 2.40 AM	312.9	TO-R BAKERSFIELD (111.1)	0.0	12.05 AM	1.40 AM			1.35 PM Leave Daily	Leave Daily	9.00 AM Leave Daily
							- (Water	######	-190027	WHOT WHANKETON	erio.	-						
	(3.20) 32.22	(3.30) 30.68	(3.20)	(0.33) 36.90	(2.02) 52.81	(0.54) 35.48	(2.25) 44.44	(2.25) 44.44		Average Speed per Hour		(2.35) 41.57	(2.25) 44.44	(3.20) 32.22	(0.30) 40.60	(2.15) 47.73	(1.00) 33.60	(3.20) 32.22

Schedule time and train orders for eastward trains at Calwa Tower apply at end of double track, 360 feet west of the tower. Schedule time and train orders for eastward trains at Famoso apply at junction switch of Porterville Line. Schedule time and train orders for trains at Oil Jct. apply at crossover switch just west of Signal 3086.

Rule S-72 Exception; No. 56 is superior to No. 57.

No. 60 stop at Delano to dispatch U.S. Mail.

RULES 86 and 87. Second and inferior class trains and extra trains must clear time of No. 51 and No. 52 not less than ten (10) minutes.

ADDITIONAL STATIONS:	Muscatel 200 Calwa 208 Winedale (Spur) 222 Midvalley (Spur) 243 Alfae (Spur) 262 Quall (Spur) 263 Vinland (Spur) 263 Vinland (Spur) 284
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Train	At	Receive or Discharge	To (or beyond)	From (or beyond)	Frequency
60 60 56 55 26 59	Selma Tulare Delano Any Station Any Station Delano Delano Tulare	Discharge Discharge Discharge Discharge Discharge Discharge Roceive & Discharge Receive Receive	Los Angeles Stockton Stockton	Stockton Stockton Stockton Delano Los Angeles Tracy	Daily Daily Daily Daily Daily Daily Daily Daily Daily

		FIRST	CLASS						FIRST	CLASS	
Capacity of Sidings in Car Lengths	van der	44	346 Motor	58 Sequoia	Distance from San Francisco	Time Table No. 160 August 1, 1939	Distance from Famoso	345 Motor	57 Sequoia	T.om/E	
BIR T	818	FTR	Leave Daily	Leave Daily	Sa	STATIONS	Ö	Arrive Daily	Arrive Daily		11 13 1
вкуотур			7.15PM	-	205.5	TO-R FRESNO	104.3	s 10.20 AM			· ·
Yard	211201	- 1001-07	11.7.7	1971	207.0	TO SUNMAID TOWER		1-10			1,18
-	State	690-03	7.06	THE PERSON		A. T. & S. F. Crossing	102.8	f 10.08	anorra	70	
10 0			7.26		208.5	BLOSSOMA 3.3					-
19 P PY			7.30	SCE, LIN	211.8	BUTLER 1.2	98.0	f 10.03	0.734003	40.76	10 0.240
	MIDSAG.	mec.a	F 24	SEX!U	213.0	LOCANS 1.5	96.8	f	AND THE		4 550
60 P			7.34		214.5	IVESTA 1.4	95.3	f 9.59	excordo.	-	0.17
			f 7.36		215.9	OLOTHO 3.9	93.9	f 9.56	80,000		10/0
Yard WP	426.4	8.23	8 7.44	OIL, I.A.	219.8	TO SANGER	90.0	s 9.50	ANTI	101	45,725
14	1-6	61.8	f 7.48	PS-335	222.8	TARN 2.5	87.0	f 9.42	1000		6.72
P	CURC	00.8	f 7.52	Ed., Id.	225.3	FARGO 2.6	84.5	f 9.38	STREET, SA	8 1.07	
P	100	COLV	f 7.56	00.51	227.9	LACJAO 0.1	81.9	f 9.34	URALIA		
			NEW A	- 5 172	228.0	A. T. & S. F. Crossing (Stop)	81.8		KINVIAN	A PARSO	- A.CHI
85 Yard P			s 8.02	12	229.9	TO REEDLEY	-	s 9.28	TOLIO		7.59
3 Yard WP	200	1-3-1	s 8.11	68,431	235.0	TO DINUBA	74.8	s 9.18	265 97048		15-0.00
23 P	63.6	71.7	f	PA,04	237.2	SMYRNA 2.4	72.6	f	d to choose	B 97	1.11
23 P	61,5	7.0.7	f 8.18	10.37	239.6	MONSON 4.0	70.2	f 9.08	PROSAN	1000	2.10
DE.C.L.	ERVINE	00.7	W 20.331	18,01	243.6	A. T. & S. F. Crossing (Stop)	66.2		2111141	n (19)	CILL FAR
24 P	0.016	6.52	8.30	26303	246.4	TAURUSA 3.0	63.4	f 8.56	1.000		1.13
21	3.40	0.40	s 8.37	120,15	249.4	TO IVANHOE	60.4	s 8.51	Maro Am	T 4-17	diam
P			f 8.41	11.61	252.2	ROCHE 0.9	57.6	f 8.46	gring true		
24 P			8.43	70.07	253.1	CAPLIN 4.3	56.7	f 8.44	JETHIOLO		1 Bass
74 WYP Yard			s 8.55	8.35AM	257.4	TO-R EXETER	52.4	s 8.35	s 7.50PM		0.830
13			f 9.00	8.45	260.5	BURR 3.8	49.3	8.25	7.44		I day
124 P Yard			s 9.08	s 8.53	264.3	TO LINDSAY	45.5	s 8.20	s 7.38		T serie
38 P	DOP IL	006.8	8 9.15	s 9.00	268.6	TO STRATHMORE	41.2	s 8.10	f 7.28	1.01	I ton
16	different	Marken	f	Male and	270.9	ZANTE 3.5	38.9				
20 P			s 9.30	s 9.10	274.4	PORTERVILLE 0.4	35.4	s 8.00	s 7.20		
42 KWYP Yard	100	- Mining	9.33	9.25 AM	274.8	TO-R PORTERVILLE-OLIVE ST.	35.0	7.57	7.10PM	Sparent	
19			9.36		276.5	PONCA 1.5	33.3	7.54			
25			f		278.0	LOIS 4.6	31.8	f			
23 P			s 9.46		282.6	TO TERRA BELLA	27.2	f 7.45			
69 KP			s 9.55		287.1	TO-R DUCOR	22.7	f 7.38	an Aleba ale	11913	man re filtre
23 P			f 10.00		290.0	ORRIS ———————————————————————————————————	19.8	f 7.32			
Spur			f		291.5	VESTAL 3.4	18.3	f			
67 YP			f 10.07		294.9	RICHGROVE	14.9	f 7.25			
24 P			f10.13	10.6	299.0	JASMIN 10.8	10.8	f 7.19			
KWTP			s 10.30PM		309.8	TO-R FAMOSO	0.0	7.03AM			
4			Arrive Daily	Arrive Daily		(104.3)		Leave Daily	Leave Daily		
	Direct Sys		(3.15) 32.09	(0.50) 20.88				(3.17) 31.76	(0.40) 26.10		•
ADDITIONA STATIONS:	AL spur Eshel (ofenter (at end of from Goldleaf). Spur)	210.8 Lo	co (Spur) prsey (Spur) prt (Spur) unce out (Spur)	250.8 254.0 262.8	No. 57 head in use siding to j			_	er and	

EDECMO	CHIDDIMICION	
FRESHU	SUBDIVISION	

				`	
Capacity of Sidings in Car Lengths	EASTWARD	Distance from San Francisco	Time Table No. 160 August 1, 1939 Success Branch	Distance from Clavicle	WESTWARD
-			STATIONS		1
Yard 42 BKWYP	The passes of th	274.8	TO-R PORTERVILLE-OLIVE ST.	13.3	all the second second second
F 100 100 100 100 100 100 100 100 100 10	est alter root biller over	275.6	A. T & S. F. CROSSING (Stop)	12.5	(1000 man)
		278.6	PERNU JOT.	9.5	La Companie
21		280.0	WORTH	8.1	100 TO 10
32	The street	282.4	SUCCESS 5.7	5.7	
6		288.1	OLAVIOLE	0.0	
			(12.2)		

......Time over District....

FRESNO SUBDIVISION

Capacity of	EASTWARD	rom	Time Table No. 160 August 1, 1939		WESTWARD
Sidings in Car Lengths	10.011 80.8	Distance f San Franc	Pernu Branch	Distance from Pernu	\$1.8 EF our
Lan FI	8-1-10-01-1-	26	STATIONS		and beat the
	3 80.01 81-9	278.6	PERNU JOT.	1.3	
Spur		279.3	TANDY	0.6	IntY
Spur	81-011 -181-8	279.9	PERNU	0.0	
A 1. 589	EL COUNTY STORY	10 10 2 49	(1.3)		

FRESNO SUBDIVISION

	EASTWARD		Time Table No. 160		WESTWARD
Capacity of Sidings in		ce from ancisco	August 1, 1939	ice from	
Car Lengths	A	Distance San Franc	Richgrove Branch	Distance	
		100	STATIONS		
67 YP		294.9	RIOHGROVE	4.1	
50		297.6	TROCHA	1.4	
40		299.0	JOVISTA	0.0	
			(4.1)		

TEHACHAPI SUBDIVISION

Little				EA	STWAR	D						Ta an					WE	STWAI	RD			be consider
	SE	COND CLA	iss	TOTAL A PAR		THE	FIRST	T CLASS			20	Time Table No. 160	g		V-07 / 10	FIRST	CLASS	7-15	Solution	T	IRD CLAS	8
Capacity of Sidings in Car Lengths	Freight	814 Freight	812 Freight	810 Freight	56 Tehachapi	2 Santa Fe Passenger	52 San Joaquin	24 Santa Fe Passenger	60 West Coast	26 t Owl	Distance from San Francisco	August 1, 1939	Distance from	55 Tehachapi	9 Santa Fe Passenger	51 San Joaquin	23 Santa Fe Passenger	25 0wl	59 West Coast	811 Freight	813 Freight	815 Freight
	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	y Leave Daily	Leave Daily	Leave Daily		STATIONS		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily
BKWOTYP Yard			4		11.40PM	A	2.39 PM	A	3.35 AM	M 2.50 AM	312.9	TO-R BAKERSFIELD	67.8	s 3.20AM	- Talen	s 1.28 PM	3.771	s 11.55 PM	s 1.30AM			7 7
KI P	6.30PM	11.55M	6.05AM	12.01 AM	11.42PM	7.20PM	2.41	8.25 AM	M 3.37	2.52	313.6	TO-R KERN JOT.	67.1	3.17	11.49 AM	1.26	9.50 PM		1.27	8.55 AM	6.00PM	2.35AM
No Siding P							AF BEN				317.0	MAGUNDEN E	63.6		- ATST		2 P/2		AE.V			
No Siding P					f						320.1	EDISON	60.6	f	ours	71	1-1111		36,7 3			4 1 1 1 1 1
80 P	6.55	12.20PM	6.30	12.26	12.05AM	7.39	2.59	8.44	3.55	3.11	327.9	BENA	52.8	2.55	11.32	1.09	9.32	11.30	1.05	8.22	5.30	2.10
85 P	7.03	12.28	6.38	12.34	12.11	7.44	3.04	8.49	4.01	3.17	331.3	ILMON	49.4	2.50	11.27	1.04	9.27	11.24	12.59	8.12	5.21	2.00
East 68 West 68	7.18	12.40	6.50	12.49	s 12.21	7.53	3.12	8.58	4.10	3.25	335.2	TO CALIENTE	45.5	f 2.40	f 11.18	12.56	9.18	11.15	12.49	8.00	5.05	1.48
82 I P	and the same of the same	12.50									338.2	ALLARD	42.5	2.30	11.10	12.50	9.10	11.08	12.42	7.50	4.53	1.39
West 71 East 71 IWP	,				12.37						340.5	TO BEALVILLE	40.2			8.7.8	0.00		12.37			
71 IP	7.45	1.05	7.17	1.11	12.43	8.10	3.28	9.15	4.27	3.42	342.3	OLIFF	38.4		- 100		1-1-911-0		-100			(Primity all)
East 73 West 73 P	7.55	1.15	7.27	1.21	12.50	8.17	3.35	9.22	4.34	3.49	345.5	zi ROWEN	35.2	2.14	10.54	12.35	8.55	10.52	12.26	7.27	4.35	1.21
123 IWP No.2Siding66	8.15	1.35	7.55	1.45	f 12.59	8.25	3.42	9.30	4.42	3.57	348.8	TO WOODFORD	31.9	s 2.06	10.47	12.28	8.48	10.44	12.18	7.17	4.25	12.59
99 P	8.24	1.45	8.10	1.58	1.07	8.32	3.49	9.37	4.49	4.03	351.8	WALONG	28.9	1.58	10.41	12.22	8.42	10.37	12.11	7.07	4.15	12.47
West 69 IWP	8.37	1.53	8.21	2.10	1.14	8.37	3.54	9.43	4.54	4.08	354.1	TO MARCEL	26.6	1.53	10.36	444	8.37	10.31	12.05AM	7.00	4.08	12.40
81 P	8.55	2.03	8.32	2.20	1.22	8.46	4.00	9.51	5.00	4.14	356.7	CABLE 3.9	24.0	1.47	10.30	12.12	8.30	10.25	11.59PK	6.52	4.00	12.32
100 Yard	9.14	2.18	8.45	2.35	s 1.33	18.56	4.08	f 10.01	5.09	f4.24	360.6	TO-R TEHACHAPI	20.1	s 1.38	s 10.21	12.04PM	f 8.21	f 10.15	11.50	6.40	3.40	12.20AM
100 Yard YP				EMBETEL	1.37	9.00	4-118	10.05	5.13	4.28	362.4	SUMMIT SWITCH	18.3	1.32	10.17		8.17	10.11	11.47			A - LU
70 P					f 1.42	9.04	4.14	10.09	5.19	4.33	365.0	MONOLITH 5	15.7	s 1.27	10.13	11.58 AM	8.13	10.07	11.43			
YP Yard				W 12 2 4 1		0.000					368.0	ERIO S	12.7		Marian	The state of the	A DE	MBS/8	6.83			
WP				THE PLANE OF	1.49	9.10	4.20	10.15	5.25	4.39	369.9	CAMERON 7	10.8	f 1.17	10.07	11.51	8.07	9.59	11.35			
78 P					1.57	9.18	4.26	10.23	5.32	4.46	374.3	WARREN 6.4	6.4	1.07	10.01		8.01	9.50	11.26			Number of Street
Yard BKWOYP	10.25PM	3.30PM	9.55AM	3.55 AM	s 2.10AM	89.32PM	s 4.39 PM	10.37AN	s5.45AM	s5.00 AM	380.7	TO-R MOJAVE	0.0	12.50 AM	9.48 AM	11.33AM	7.48 PM	9.35PM	11.10PM	5.40M	2.40PM	11.20PM
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		(67.8)		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily
	(3.55) 17.13	(3.35) 18.72	(3.50) 17.50	(3.54) 17.20	(2.30) 27.12	(2.12)	(2.00) 33.90	(2.12) 30.50	(2.10) 31.29	(2.10) 31.29		Time over District	- 6.	(2.30) 27.12	(2.01)	(1.55) 35.37	(2.02)	(2.20) 29.05	(2.20) 29.05	(3.15)	(3.20) 20.13	(3.15) 20.64

Schedule time and train orders at Tehachapi apply at end of double track.

	ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE REVENUE PASSENGERS												
Train	At	Receive or Discharge	To (or beyond)	From (or beyond)	Frequency								
59	Tehachapi	Receive	Stockton	Cinco 17	Daily								
DIG.		THE PARTY	3.30	told private many	AN OC								
BIRES	= 1	HE THE											

MOJAVE SUBDIVISION

	EASTWARD								EAST VERTICAL CO.	11 6	WESTWARD								
		SECOND CLASS				FIRST	CLASS		from	Time Table No. 160	e from	oler J. he	FIRST	CLASS	88		TI	IIRD CLAS	5
Capacity of Sidings in	n	816 Freight	814 Freight	810 Freight	52 San Joaquin	60 West Coast	26 owl	56 Tehachapi	Distance from San Francisco	August 1, 1939	Distance Burbank	51 San Joaquin	25 owl	59 West Coast	55 Tehachapi	811 Freight	813 Freight	815 Freight	
		Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily		STATIONS		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	
Yard	P	11.25M	4.50PM	4.40AM	4.44PM	5.50AM	5.05 AM	2.30AM	380.7	TO-R MOJAVE	90.9	s 11.30 AM	s 9.25PM	s 11.06PM	s 1 2 . 3 3 AM	5.05 AM	1.40PM	10.30PM	
84	P	11.35	5.00	4.50		5.56	5.11	2.36	384.8	4.1 FLETA 2.5	86.8	BIUMAUK	9.19	11.00	12.27	4.50	1.25	10.16	
85	P	11.40	5.05	5.00		6.00	5.15	2.40	387.3	GLOSTER	84.3	- aurwyti	9.15	10.56	12.23	4.46	1.15	10.11	
81	P	11.46	5.11	5.06	4.55	6.05	5.20	2.45	390.4	ANSEL	81.2	11.19	9.10	10.51	12.18	4.41	1.06	10.03	
80	P	11.53PM	5.18	5.13		6.11	5.26	f 2.52	394.3	0.0	77.3	- Ulbiya	9.04	10.45	f12.12	4.35	12.58	9.56	
50	P	12.01	5.28	5.23	4	6.19	5.34	3.00	399.9	ROSAMOND 5.6 OBAN	71.7	MATERIA	8.56	10.37	12.01AM	4.26	12.48	9.46	
BKWO 74 Yar	P	12.30	5.45	5.42	5.12	6.27	5.42	s 3.11	405.5	TO-R LANCASTER	66.1	11.02	f 8.48	10.28	s 1 1.51 PM	4.17	12.38	9.36	
50	P	12.43	6.00	6.00		6.33	5.48	3.18	409.8	DENIS	61.8		8.40	10.18	11.36	4.10	12.29	9.28	
68 WY	P	12.51	6.08	6.08		6.38	5.53	s 3.27	413.8	TO PALMDALE	57.8	10.52	8.35	10.13	s11.30	4.04	12.21	9.20	
90	P	12.58	6.15	6.15	5.24	6.42	5.57	3.32	416.3	2.5 HAROLD	55.3	10.49	8.31	10.13	11.23	3.57	12.14PM	9.13	
Cast 75 Ya	rd P	1.20	6.45	6.54	5.32	6.54	6.09	3.45	420.5	TO VINCENT	51.1	10.41	8.22	10.09	11.14	3.45	11.59AM	9.00	
	P	1.34	6.59	7.19	5.41	7.04	6.19	3.56	425.0	PARIS	46.6	10.32	8.12	9.49	11.04	3.22	11.32	8.35	
13	P						0.22	f 4.00	426.1	ACTON	45.5	10.52	0.12	9.49		3.44	11.32	0.33	
95 W	P	1.50	7.21	7.41	5.49	7.13	6.28	f 4.09	429.0	2.9 RAVENNA	42.6	10.24	8.04	9.40	f11.01	3.09		8.04	
82	P	2.15	7:36	7.58		7.25	6.40	4.22	434.6	5.6 RUSS	37.0	10.12	7.52	9.40	f10.53		11.19	7.36	
101 W	P	2.39	8.05	8.11	6.09	7.34	6.49	f 4.33	438.7 438.8	TO LANG	32.8	10.12	7.43	9.17	10.41	2.52	11.02		-
85	P	2.53	8.18	8.24	6.18	7.43	6.58	4.44	438.8	HUMPHREYS	28.5	0.55	-		f 10.32		10.49	7.19	
81	P	3.05	8.30	8.36	ONWERS	7.52	7.07	4.54	446.9	3.8 HONBY	-	9.55	7.34	9.08	f10.23	2.27	10.37	7.07	
W 78 Yard 71BKWOY	d YP	3.20	8.50	8.48	6.33	8.00	f 7.15	s 5.05	450.6	TO-R SAUGUS	24.7	9.40	7.26 s 7.17	8.59 8.50	10.14 s 10.05	2.16	10.26	6.56	
63 P	?				ates part	Select 1		f	453.0	NEWHALL 0.7	18.6	E CALLED		2.00	f				
80		the state of the state of			6.38	8.05	7.20	5.10	453.7	ELAYON	17.9	9.35	7.11	8.44	9.51	pr-		6.38	
		enoment.						2000	454.4	WALTZ JOT.	17.2		10		ALC: N				
58 P	,	3.48	9.18	9.16				5.21	456.6	TUNNEL	15.0		7.04		9.44	1.37	9.57	6.20	
83 P		3.58	9.27	9.25	6.48	8.19	7.35	5.26	459.2	SYLMAR	12.4	9.25	6.58	8.34	9.39	1.27	9.50	6.12	24 11 11
Yard 105 WP		4.10	9.33	9.30	6.51	8.24	7.41		461.8	TO SAN FERNANDO	9.8	9.21	6.51	8.30	s 9.33	1.14	9.45	6.05	
85 P	,	4.15	9.50	9.36	6.54	8.27		f 5.38	463.4	PACOIMA	8.2	9.19	6.45	8.27	9.26	12.59	9.36	5.50	
39 P	,								465.6	WAHOO	6.0								-
96 P	,	4.26	10.05	10.16		8.33	7.52	f 5.46	467.9	ROSCOE	3.7		6.39	8.21	9.20	12.47	9.28	5.40	
52 PI	I	4.38AM	10.17PM	10.30AM	7.04PM	8.40AM		5.54 AM		TO BURBANK JOT.	0.0	9.09AM				12.35AM	9.20AM	5.25PM	
		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily				90.9			Leave Daily					Leave Daily	
1		(5.13) 17.42	(5.27) 16.67	(5.50) 15.58	(2.20) 38.95	(2.50) 32.08	(2.54) 31.34	(3.24) 26.73		Time over District		(2.21)	(2.52)	(2.50) 32.08	(3.18) 27.54	(4.30) 20.20	(4.20) 20.97	(5.05) 17.88	

Schedule time and train orders for first class trains at Saugus apply at initial switch Middle Siding at which opposing trains enter Siding. See special rule 105.

Schedule time and train orders at Burbank Jct. apply at End of double track.

Intermediate Spur: Consolidated Rock Co. M.P. 465.1. Capacity 10 cars.

Train	At	Receive or Discharge	To (or beyond)	From (or beyond)	Frequency
26 59 60 25 59 59 26 60 60	Lancaster Palmdale Lancaster Lancaster Lancaster San Fernando San Fernando Saugus San Fernando Saugus San Fernando	Receive Receive Receive Discharge Receive Receive Receive Receive Receive Receive Discharge Discharge	Glendale Glendale Stockton Mojave Merced Stockton Colton	Stockton Fresno Stockton Stockton	Daily

6						FRESNO SUBDIVISION	1018	MICIEUS	BYAR	387	d-over 1				FRESNO SUBDIVISIO	ON	
	E	ASTWA	RD						W	ESTWA	RD		EASTWARD			WES	TWARD
		FIRST CLASS		FIRST CLASS		Time Table No. 160		F	IRST CLA	ss				HAW	Time Table No. 100		
Capacity of Sidings in Car Lengths	BIS OLASS	10 E18	118	58 Sequoia	Distance from San Francisco	August 1, 1939 Riverdale and Visalia Branches	Distance fron Exeter	57 Sequoia	Family WA		8,1	SAVIO.	Capacity of Sidings in	Distance from San Francisco	Time Table No. 160 August 1, 1939	nce from	/ Se to to a
	- Acres	himbers	- main	Leave Daily		STATIONS		Arrive Daily			Question 7	7-100	Car Lengths		Coalinga Branch	Distan	At (Sell')
Y	TilleToling		the Fierral	ship otha	181.9	INGLE 5.3	82.5	AMBITA			ghallmani	your want	individual falls and fight	towns'	STATIONS		
39		and i	FIRST I	437.	187.2	TRANQUILITY	77.2		E LE HE	L Land	HOE R	LUGAL PA	16 Spur	269.9	CRUMP	40.6	THE PERSON
56	Om Deally		BLEAT	The later of the l	191.7	SAN JOAQUIN	72.7				Lege		71 BYP	268.4	TO-R COALINGA	39.1	77
No Siding	ELOI.				195.0	OALDWELL 4.1	69.4	23		Tall your	AN AU	27.24	Yard 20 P		1.7 ORA	37.4	
31	1000		10.00		199.1	TO HELM	65.3	Teday.			1	Lora I	20 P	266.7	TURK	-	
15	1	12,7,1		1 1 1 1 1	206.3	BURRELL	58.1							260.0	7.3	30.7	-
AV TIVE	The same	AL DE	35.11		209.5	BENDER	54.9				DO B		39 P	252.7	TO HURON	23.4	100
13	Market Total	58.5,4	1 40 1		214.7	TO RIVERDALE	49.7					FA. 11	58 P	246.1	WESTHAVEN 6.7	16.8	-
Spur	75.0				217.3	ROBINSON	47.1						11 P	239.4	LETHENT 2.9	10.1	
Spur	0.0				219.3	HUB	45.1						15 YP	236.5	ROSSI 1.1	7.2	
	The Fo				221.1	LATON & WESTERN RY. CROSSING (Stop)	43.3						14 Spur	235.4	HEINLEN 1.5	6.1	
53	l do o			10000	224.2 223.0	HARDWICK	40.2						57 P East 40) RWYP	233.9	TO LEMOORE	4.6	
East 40\BWYP West 35) Yard				-	229.1	TO-R ARMONA	34.1						East 40\BWYP West 35∫ Yard	229.3	TO-R ARMONA	0.0	19/19/19
1	1-1	- 611-11			232.2	A. T. & S. F. CROSSING	31.0		r Hay I				PO-Y-LINE STORY		(40.6)		
66 BKP Yard	- Arriva				232.5	TO-R HANFORD	30.7										
Spur	1800				233.9	SHELL	29.3	- 11111		0.00	80 Au		STA AND		Average opecu per riou		
54					237.6	REMNOY	25.6				1000	00,00	22.7				
94 WOYP Yard	217			7.48 AM	245.3	TO-R GOSHEN JOT.	17.9	s 8.45PM			100	- Caraca	FRESNO SUBDIVISION				
41 P Yard	70.7	16.61	-	s 8.10	253.1	A.B.S. VISALIA	10.1	s 8.20		11 1 7 2 2 3	-	100.46				1	
	75.8				253.2	A. T. & S. F. CROSSING Stop	10.0				3.7.1	1 1 1 1 1 1 1	EASTWARD	-13	Time Table No. 160	WEST	rward
P		-01.01	- ear.6	8.20	255.2	2.0 AMBLER	8.0	8.07	10.00	1000	100		00.8 65.0 1.4	Distance from San Francisco	August 1, 1939	H	A CHARLE
Spur		-			257.3	RECTOR	5.9	TALAN .	480	0.00			Capacity of	Fran		atford	
7 P	65.0			8.26	259.0	FARMERSVILLE	4.2	8.01		TORK	5.10	06.7	Sidings in Car Lengths	Distr	Stratford Branch	Stra	1
P				8.28	260.2	zi GIANT OAK	3.0	7.58	CAP -	0.308					STATIONS	à	
74 KWYP Yard	0.0	Text	178.7	s 8.35AM		TO-R EXETER	0.0	7.53PM		7.00	78.2		40	244.1	TO STRATFORD	0.0	
Taru	51.9	There is	718.7	Arrive Daily		(82.5)		Leave Daily		The same	705,18	2017	Spur	239.9	4.2	4.2	7
		2000		Allive Daily	000	(82.5)		Leave Daily	MARK AND		10000	16.0	15 YP	236.5	OUNEO 3.4 ROSSI	7.6	198
	Dia	DE.R.	REST	(0.47) 22.85	70.8	Time over District		(0.52) 20.65		ACESA	66.0	24,7	15.5 P.D. 0		Tear Trends	1	
	oo.a	80.0 HQE.V	12.47 12.35w	0.0	16.0	MELB MEQ. I LO		Tot acade		7.500	1,000,00	10.7 mes v				:	1 1

		naus a	FRESNO SUBDIVISION	N		1000		HOISIVI	FRESNO SUBDIVISIO	N
ONAVETA	EASTWARD	of viori	Time Table No. 160	EASTW	WESTWARD	ngaw E	EASTWARD		Time Table No. 160	
Capacity of Sidings in Car Lengths	Sapacity of Sidings in		August 1, 1939 August 1, 1939 Clovis Branch			Capacity of	FEEL	Distance from	August 1, 1939	Distance from Olig
	DIN Lat. It State	Dista San J	Clovis Branch	Distance from	Charles III (III. III Annual III.	Sidings in Car Lengths	H- 10 / Paris	Dista	McKittrick Branch	Dis
			STATIONS	100	and the same of th	No.	11-1-1-1-1-1	-	STATIONS	layer to
Yard BKWOTYP		205.5	TO-R FRESNO	24.4	Section Laboration Company	Yard KI	Ten or referen	313.6	TO-R KERN JOT.	49.1
		207.1	FRESNO TOWER	22.8	South Committee of the second	P		315.3	BAKERSFIELD CORRALS	47.4
1		207.1	A. T. & S. F. CROSSING 2.3	22.0		15	LOCAL MAN	316.7	STRADER	46.0
Spur		209.4	BARTON 2.2	20.5		39 P	Charles CP Long	318.8	WIBLE OROHARD	43.9
Spur		211.6	GRANZ 0.2	18.3		Dec 04		320.5	VENOLA 2.1	42.2
Spur		211.8	MALTERMORO 0.3	18.1		50 P		322.6	R GOSFORD	40.1
	TAN TO THE TANK	212.1	NAVIN 0.8	17.8		41	Tarris and Tarris	328.4	STEVENS	34.3
17	1.00	212.9	LAS PALMAS	17.0		Spur		330.7	STRAND	32.0
		213.2	FRESNO INTERURBAN RY. CROSSING	16.7	Prising to he district	Mary Harry	The state of	336.1	RIO BRAVO	26.6
No Siding		213.9	VANRIS	16.0		A Comment of the Comm	The property lives	345.4	KILOWATT	17.3
27	And the second	214.9	TARPEY	15.0		85		346.3	TO BUTTONWILLOW	16.4
24		216.1	MELVIN	13.8	- Hotel gas brown and de	59		350.5	LOKERN	12.2
37 W		217.4	TO OLOVIS	12.5	of the fall of the second	30 Y	THE RELEASE	360.6	TO McKITTRIOK	2.1
9		218.5	GLORIETTA	11.4				362.7	OLIG	0.0
67	1 THE R. P. LEWIS CO., LANSING, MICH.	220.9	PINEDALE	9.0					(49.1)	Rate If
38		222.9	GORDON	7.0			1 28.8)))
		225.7	ROCKFIELD	4.2	Inches III and III and III					
		226.0	GAND 3.9	3.9		later of her				
34 WT Yard		229.9	FRIANT	0.0						
1			(24.4)		Land the second or the	A THE R. L.				

SUNSET RAILWAY COMPANY

Capacity of Sidings in Car Lengths	EAST- WARD	Distance from Gosford	Time Table No. 160 August 1, 1939 STATIONS	Distance from Maricopa	WEST- WARD	Capacity of Sidings in Car Lengths	EAST- WARD	Distance from Pentland	Time Table No. 160 August 1, 1939	Distance from Taft	WEST- WARD
50 P		0.0	R GOSFORD	31.9					STATIONS		3 1
14 P		3.0	BANNISTER 6.5	28.9		Yard 39 Y		0.0	R PENTLAND	8.7	
40	1941-0	9.5	CONNER	22.4		47		2.2	KERTO	6.5	
41 W		14.2	MILLUX 2.6	17.7	er ewi			3.5	WINOIL	5.2	
		16.8	LEVEE 10.6	15.1				7.3	LOWRY	1.4	
Yard 39 Y	74.525	27.4	R PENTLAND	4.5				8.7	TAFT	0.0	lost a William
28		30.1	HAZELTON	1.8	Total .				(8.7)	4017, p.15	
Yard 17		31.9	R MARICOPA	0.0			-				
1			(31.9)				100 mg		Time over District		
			Time over District								

.....Time over District...... ...Average speed per hour....

SPECIAL INSTRUCTIONS

WESTWARD

Southern Pacific Company Rules and Regulations of the Transportation Department, Air Brake Rules and Special Instructions in San Joaquin Division Time Table govern on Sunset Ry.

Train will not exceed the speed in miles per hour shown below:

BETWEEN	Pass.	Freight	Backing
Gosford and Pentland	30	25	15
Except M. P. 26 and Pentland	12	12	12
Pentland and Maricopa	12 12 12	12	15 12 12
Pentland and Kerto	12	12	12
Kerto and Taft	20	20	15
East Switch Long Siding at Taft and derailer in main track west of Taft	10	10	10

Exercise caution in going over sags in track between M. P. 26 and Maricopa and between Pentland and Kerto and do not exceed 6 miles per hour over sag in track 500 feet east of opening 11A, east of Taft.

At Pentland, normal position of junction switch will be for Taft line.

There is a spring derailer on main track 900 feet west of west switch at Taft.

RULE 93: Yard limits are established at:
Pentland Taft Maricopa.

Dr. A. R. Moodie, District Physician and Surgeon, Taft, California.

MOJAVE SUBDIVISION

. 50 .

- 4	EAST	WARD	Dece-	A STATE OF SOME		WESTWA	RD
	SECOND	FIRST CLASS	8.2	Time Table No. 160		SECOND CLASS	THIRD
Capacity of Sidings in Car Lengths	802	788	Distance from San Francisco	August 1, 1939	Distance from Owenyo	789	803
	Freight	Mixed		Owenyo Branch	9	Mixed	Freight
	Leave Daily	Leave Daily Ex. Sunday		STATIONS		Arrive Daily Ex. Monday	Arrive Dail
BKWOYP Yard	4.00PM	1.25AM	380.7	TO-R MOJAVE	143.5	s 12.30AM	11.05
45	4.04	1.29	380.8	OHAFFEE	142.2	12.20	10.55
48	4.11	1.36	384.0	OAMBIO	139.0	12.05AM	10.40
48	4.30	1.55	392.9	NEURALIA	130.1	11.45PM	10.20
48	4.40	2.04	397.3	OINOO	125.7	11.30	10.05
East 48 W West 48	5.00	s 2.19	402.5	OANTIL	120.5	811.15	9.50
Spur		f	405.3	GYPSITE	117.7	f	
35	5.15	f 2.30	407.5	CENEDA	115.5	f 10.50	9.20
13	5.18	f 2.32	408.5	SALTDALE	114.5	f10.45	9.15
48	5.30	2.40	412.2	GARLOOK	110.8	10.35	9.00
48	5.40	2.49	416.4	4.2 GOLER	106.6	10.25	8.45
48	5.55	f 3.00	420.5	RAND	102.5	f10.15	8.30
48 Yard	6.15PM	s 3.45	428.4	TO-R SEARLES	94.6	s 9.55	8.00
48		f 3.55	432.8	RADEMACHER	90.2	f 9.10	
52		4.06	438.3	CODE	84.7	8.55	
48		8 4.28	447.2	INYOKERN	75.8	s 8.35	
Spur W		4.38	451.7	LELITER	71.3	8.20	
48		8 4.48	456.3	BROWN	66.7	s 8.10	
48		4.57	460.7	LINNIE	62.3	7.53	
47		s 5.15	468.3	LITTLE LAKE	54.7	s 7.35	
48		f 5.25	471.5	3.2 COSO	61.5	f 7.25	
48		f 5.35	475.6	SYKES	47.4	f 7.15	-
47 W		f 5.57	484.1	HAIWEE	38.9	f 6.55	VAY.
52		6.06	488.5	L000	34.5	6.45	
48		f 6.16	493.3	OLANCHA	29.7	f 6.35	
52	the strigger	f 6.27	497.7	OARTAGO	25.3	f 6.25	L 615 ale
52	delate indicates	6.37	502.3	MONACHEE	20.7	6.01	Cabba Lin
52		f 6.46	506.3	BRIER	16.7	f 5.54	
		f	509.2	BARTLETT	13.8	f	Marine Arm
52 W		7.04	514.3	DIAZ	8.7	5.40	
East 28 West 52	DEL STATE	s 7.40	518.8	LONE PINE	4.2	s 5.30	111111
37 BKOY Yard	EL T	s 7.55AM	523.0	TO-R OWENYO	0.0	5.15PM	0.00
	Arrive Daily	Arrive Daily Ex. Sunday	dies b	(143.5)		Leave Daily Ex. Sunday	Leave Daily

MOJAVE SUBDIVISION

EASTWARD	Patater	(Narrow Gauge)	WESTWARD		
Capacity of Sidings in Car Lengths	Distance from San Francisco	Time Table No. 160 August 1, 1939	Distance from Keeler	A STATE OF THE STA	
	S D	Keeler Branch	Die		
	OF EAST	STATIONS		12000	
24 P	476.0	BENTON 11.0	101.2		
13 YPW	487.0	HAMMIL 2.4	90.2		
12	489.4	DEHY	87.8		
8	491.3	SHEALY	85.9		
	499.1	CHALFANT	78.1		
Yard BKWOTP	506.8	TO-R LAWS	70.4		
20 4	511.7	BIGELOW	65.5		
10	516.1	BLACK CANYON	61.1		
14 P	522.7	ZURICH	54.5	10	
40	525.5	MONOLA	51.7	7	
10 Y	526.8	BENEME	50.4		
8	530.9	ELNA	46.3		
20 PW	536.9 536.2	ABERDEEN	40.3	-	
14 PW	550.1	KEARSARGE	26.4		
8	555.2	MANZANAR	21.3		
Yard BKOTP	559.8	TO-R OWENYO	16.7		
14	563.7	MT. WHITNEY	12.8	-	
Spur	568.7	ALICO	7.8	Termonii	
Spur	570.2	DOLOMITE	6.3		
Spur	571.4	MOCK	5.1		
6	572.2	TRAMWAY	4.3		
Yard WYBK	576.5	TO-R KEELER	0.0		
8		(101.2)			
	reak La	Time over District	1	BA3	

RULE 3. Conductors on eastward Santa Fe trains originating at Bakersfield will show on reverse side of Kern Jct. register ticket watch comparison made at Santa Fe station Bakersfield, also comparison with

RULE 10 (H). A green metal signal with white border, unlighted, will be used in connection with this rule as an indication that normal speed may be resumed after rear of train has passed such signal.

RULE 10 (J). Round yellow slow boards indicate by black figures the speed restrictions applying to trains Nos. 51 and 52 when handled by P-10 class or lighter engines which have been cross counter-balanced for speeds of 75 M.P.H. or over.

Speeds indicated by oval white slow boards apply to these trains unless a round yellow slow board authorizing a higher speed is displayed on same post below the oval slow board.

RULE 14 (d). As specified below, four long and one short sounds will be indication that flagman may return from west as prescribed by Rule 99.

Famoso ... Trains on Porterville main track.
Ducor ... Trains on Minkler-Southern Branch.
Exeter ... Trains on Visalia Branch.

Goshen Jct..... Trains on Riverdale Branch.

RULE 14 (e). As specified below, six long sounds will be indication that flagman may return from east as prescribed by Rule 99.

Fresno......Trains on Porterville main track and Clovis

Branch. Porterville..... Trains on Success Branch. Rossi..... Trains on Stratford Branch.
Goshen Junction... Trains on Visalia Branch.
Ingle..... Trains on Riverdale Branch. Richgrove..... Trains on Richgrove Branch. Magunden....Trains on Arvin Branch.
Mojave....Trains on Owenyo Branch.

RULES 17 and 19. Night signals will be displayed through tunnels. RULE 17 (C). For identification purposes, engineman may dim the headlight when passing the head end and rear end of trains on adjoining tracks, except when nearing street or highway crossings.

RULE 21 (C). In Bakersfield and Fresno indicators on engines must be displayed to relief track.

RULE D-71. Trains and engines may move between Calwa Tower and Clinton Ave., Fresno with current of traffic irrespective of time table superiority but must avoid delaying first-class trains.

Inferior trains and engines may run ahead of first-class trains Bakersfield to Bena and Bena to Bakersfield, but will take necessary precautions to avoid delay to passenger trains.

RULE S-72. Westward trains are superior to trains of the same class in the opposite direction, except as noted on page 2.

RULE 83. Train registers are not maintained at Calwa Tower or Bena. When an observation check be made between Fresno and Calwa Tower, and between Bakersfield and Bena, it will apply at end of double track.

Trains approaching each other between these stations will reduce speed sufficiently to permit identification.

When first class trains on opposite track between Mojave and Tehachapi are identified, it will not be necessary to obtain check of such trains before making movements in the same direction between Summit Switch and Mojave.

Rule 14-k must be applied when approaching trains on opposite track. RULE 83 (A). At the following stations, only the trains indicated

 Brook.	
Oil Jct Lancaster	Trains originating and terminating.
Saugus	Trains to and from Porterville main track.
Famoso	.Trains to and from Porterville main track.
	First and second class trains, and trains originating and terminating.
Goshen Jct	. No. 55, No. 56, No. 57, No. 58 and trains to
	and from Visalia and Riverdale Branches,

When directed to register at an intermediate station, an extra train must show in column captioned "signals," the number and date of train order authorizing its movement; also the restricting order if such an

RULE 83 (B). At open train order offices trains may register by ticket as follows:

Kern Jct...... Santa Fe trains, S. P. first class trains and
Westward light engines.
Tehachapi....... First and second class trains.

Porterville Olive St. First class trains.

Famoso...... Trains to and from Porterville main track.

Operator Kern Jct. will report arrival and departure Santa Fe first-class trains to Operator Bakersfield, who will enter same on register. Operator Kern Jct. will report arrival and departure of all scheduled trains to operator Santa Fe station Bakersfield, who will enter same on Southern Pacific register located at Santa Fe station Bakersfield.

RULE 83 (D). Westward Santa Fe trains via Southern Pacific will obtain clearance and train orders from operator Santa Fe station Bakersfield authorizing movement from Oil Junction westward.

Eastward Clovis Branch trains destined to Fresno Interurban obtain train orders or clearance from operator at Fresno Tower, authorizing movement over Fresno Interurban.

Trains to and from Riverdale Branch and Western Division must obtain separate Western and San Joaquin Division clearances.

Trains via Visalia and Riverdale branches must obtain clearance be-

fore leaving Goshen Jct. when operator on duty. Trains to and from Santa Paula Branch must obtain a clearance before leaving Saugus.

San Joaquin Division routed trains must obtain San Joaquin Division clearance authorizing movement west of Burbank Jct., in addition to Los Angeles Division clearance, at initial station on Los Angeles Division.

Each clearance must be properly designated.

Eastward trains from San Joaquin Division are authorized to assume corresponding schedule on Los Angeles Division from Burbank Jct. to terminal station of schedule. Trains to and from San Joaquin Division are not required to obtain clearance at Burbank Jct. provided train is properly cleared by train-order signal.

RULE 83 (E). A train when authorized by train order, may check the register against an extra train, and proceed if such extra train appears on the register with the number and date of its restricting order registered in column captioned "Signals".

When a train is so authorized to check the register, it must register and place the restricting order number and date in column captioned

RULE 93. Yard limits are established at:

Fresno	Lancaster	Visalia
Selma	Vincent	Hanford
Kingsburg	Saugus	Armona
Goshen Jct.	San Fernando	Hardwick
Tulare	Sanger	Coalinga
Delano	Reedley	Friant
Bakersfield	Dinuba	Searles
Tehachapi	Exeter	Owenyo
Summit Switch	Lindsay	Keeler
Eric	Porterville Olive St.	Laws
Mojave		

Fresno: Limits are defined by yard limit signs at the following points:

Kerman Line.....Mile Post 206.32.

Merced Line.....Mile Post 199.08.

Bakersfield Line....Mile Post 210.81.

Porterville Main Track.Mile Post 208.15. Clovis Branch..... Mile Post 209.6.

Trains or engines will not move against current of traffic on double track between Divisadero Street and Clinton Avenue and between Cherry Avenue and Calwa Tower, Fresno, except on authority of Yardmaster. When making movements against current of traffic, trains or engines must be preceded by flagman over railway and street crossings at grade where wigwags are installed, protecting these crossings during

Trains arriving and departing via Los Banos line at Fresno will receive proceed signal from herder at Divisadero Street, green flag by day and green light by night.

Westward trains or engines must receive proceed signal from yardman at Kern Street; and eastward trains or engines must receive proceed signal from yardman at Merced Street.

Mojave: First class trains may pass through Mojave without hand signals, providing switches are properly lined for such movement, and will move with caution irrespective of timetable superiority between Signals 3802 and 3811. Inferior trains entering or leaving Mojave must receive green signal unless yardmaster or his subordinate notifies train that they may enter or leave without green signal.

Trains leaving east end of yard may proceed without signal from herder provided they are notified switches are properly lined.

Trains from Owenyo Branch stop before fouling main track or blocking highway crossing regardless of position of derailer or signals received.

Unless yardmaster or his subordinate instruct otherwise, crossover movement from Owenyo Branch to Mojave will be made as follows: First throw derailer on Owenyo Branch, second throw trailing point switch on eastward main track, third crossover switch on westward main track, fourth Owenyo Branch switch—then wait three minutes before proceeding. Be governed by Rule 93.
Following code of signals will govern eastward trains entering yard:

Southern Pacific:

Passenger trains.....One long.
Freight trains.....One short, one long, one short. Santa Fe:

Passenger trains.....One long, one short. Freight trains.....One long, one short, one long.

RULE 95. Eastward trains from San Joaquin Division holding train order authority to display signals for following section to Burbank Jct. are authorized to display signals to terminal station of schedule on Los

RULE D-97 (A). Will apply between Tehachapi and Summit Switch.

Eastward extra trains with running orders terminating at Burbank

Junction may proceed beyond that station without a clearance, being governed by train order signal.

RULE 98. RAILROAD CROSSINGS AT GRADE NOT INTERLOCKED

A. T. & S. F. Railway, 744 feet east of Lacjac, STOP.
A. T. & S. F. Railway, 14718 feet west of Taurusa, STOP.
A. T. & S. F. Railway, 602 feet east of Visalia, STOP, and not pass over crossing without receiving proceed signal from flagman, who must

Laton & Western Railway, 1.8 miles east of Hub, STOP.

A. T. & S. F. Railway (on Success Branch), 4515 feet east of Porterville,

Fresno Interurban Railway, 1771 feet east of Las Palmas. Fresno-Trains from Clovis Branch and Porterville main track stop

"stop" board at junction of these lines. Goshen Jct .- Trains from Visalia Branch stop at "stop" board east

End of the Visalia Branch will be at first switch east of the station where it enters Bakersfield-Fresno main track.

RULE 103 (A). At Selma no switching movements will be made over West Front Street while switching industrial tracks east of station and opposite Libby, McNeill and Libby Plant unless crossing is protected by member of crew.

All train movements over Peach and Butler avenues, Fresno, between

All train movements over Peach and Butler avenues, Fresno, between Goldleaf and State Center, must be protected by flagman.

No train, engine, car or motor shall be stored within 100 feet of either property line of County Road Crossing or Western Dairy Products track at Tipton, unless crossing is protected by flagman.

At Armona no switching movements will be made over Lake Street crossing unless protected by member of crew.

Trains switching Knudsen Laboratories, Inc. (Creamery) Spur, Visalia, must stop before making reverse movement across Goshen

Avenue crossing.

When using spur track leading to freight station, Bakersfield, member of crew will see that highway traffic on U. S. Highway 99 is protected. After having entered upon crossing, it should be cleared as quickly as

In general, highway crossing signals are so designed that they will not operate for trains or engines making a reverse movement after having passed over the crossing. Trains or engines making such reverse movements must protect the crossing unless it is known signals are operating. RULE 104. The normal position of switches at junctions will be for

main tracks.

Exceptions:

Fresno Yard, Clinton Avenue (end of double track) for eastward track. This is an oil buffer spring switch.

Fresno, junction Los Banos line, for eastward track. This is an oil buffer spring switch.

Bena (end of double track) for westward track. This is an oil buffer

spring switch.

Pernu Jct. for Success Branch
Gosford for Sunset Railway

Switch at stem of wye McKittrick must be set for direct movement along the east leg of wye to serve as derail for cars spotted on stem of wye.

Derailers in main track. McKittrick. East wye switch is spring switch and serves as derail. Porterville. 310 feet east of junction switch on Success Branch.

Mojave. 230 feet east of junction switch on Owenyo Branch.

Famoso. 168 feet west of junction switch, on Porterville main track. RULE 104 (D). Use of heavier than C class engines in making running switches is prohibited unless engine is routed over other than diverg-

RULE 105. Track next to and north of main track at Ducor will be used as siding No. 1. Second track north of main track, will be used as Minkler Southern Ry. main or No. 2 track. Trains will use extreme east switch to enter or leave Southern Pacific main track. Inside switches

will be left lined for Siding No. 2.

At Caliente, Bealville and Marcel the siding next to main track will be used as eastward siding, adjoining track will be used as westward siding. Inside siding switches are oil spring switches and normal position is for train entering siding. Trains entering siding passing an inoperative signal must assure themselves this switch is properly lined.

At Rowen the siding east of the crossovers will be used as the westward siding, the one west of the crossovers as the eastward siding.

Track (No. 1) next to main track west of station at Tehachapi will

be used as westward siding.

At Vincent siding next to main track will be used as eastward siding, adjoining track will be used as westward siding.

Trains using other than the designated siding, unless authorized by

the dispatcher, must be preceded by a flagman.

In the territory between Caliente and Tehachapi trains using sidings

designated for trains in the opposite direction must do so with caution expecting to find sidings occupied.

At Saugus the siding east of the station is the westward siding and the siding west of the station is the eastward siding. Track opposite station extending from westerly connection 863 feet east of station to connection with main track 722 feet west of station shall be known as middle siding. First-class trains meeting at Saugus use middle siding unless otherwise instructed.

RULE 221. Light will not be displayed in train order signals on Clovis, Riverdale, Coalinga, Stratford, Visalia, McKittrick, Keeler branches and Sunset Ry., except when train orders are to be delivered.

Trains will not be required to obtain clearance at Kern Jct. and Bakersfield except when such trains originate or receive orders at these

RULE 824. Instructions for setting brakes.

MOTAVE

- PASSENGER TRAINS—When road engine is detached, two brakes on east end and two brakes on west end on trains of 16 cars or less will be set. When train is set out to tie up, at least half of the brakes on the train will be set but in case train consists of 2 or 3 cars, 2 brakes will
- FREIGHT TRAINS—Ten brakes on east end, 5 in middle and 5 on west end on trains of 72 cars or less; 73 to 102 cars, 15 brakes on east end, 10 in middle and 5 on west end.

WOODFORD (When taking water)

FREIGHT TRAINS (Eastward)—First helper will spot for water, 5 brakes will be set ahead of this helper, 5 behind road engine and 5 ahead of second helper. First helper will keep engine brake applied until ready to proceed.

RAVENNA (When taking water)

FREIGHT TRAINS (Westward)—Road engine will spot for water, engine brake will be left applied on road engine and 8 brakes set ahead of helper that cuts off and takes water.

CALIENTE (When taking water)

FREIGHT TRAINS (Eastward)—Road engine will spot for water, and 8 hand brakes will be set just ahead of first helper that cuts off and takes water.

In complying with the above hand brakes on freight trains must be set with assistance of brake club after train has stopped. When for any reason hand brakes are released under these conditions, the same number must be set to replace them. Where the use of hand brake is required, air brakes must not be relied upon as a substitute.

In event it should happen that the road engine and first helper are spotted at same time to take water at Woodford, Ravenna and Caliente, automatic brakes will be released and it will not be necessary to apply hand brakes as long as road engine remains on the train.

When going to eat, or at any time that either train or engine crew leave train, sufficient hand brakes will be applied to hold the train.

In the application of Rule 825 in non-grade territory, conductors will take into consideration conditions such as heavy winds which arise from time to time on the Division.

RULE 825. Outfit cars must not be left in front of warehouses, storehouses, lumber yards, or other buildings.

When necessary to cut crossing and a distance of 100 feet on each side cannot be provided, a human flagman must protect. Cars must not be left in any position that would obstruct the view of an autoist or pedestrian of an approaching train, unless crossing is protected as stated above.

In cutting crossing Roscoe or Sheldon Ave., Wahoo, openings must be made so that cars or engines will not be left within 100 feet of either property line unless crossing is protected by a member of train crew or other competent employe acting as flagman.

RULE 833. Whenever practicable locomotive cranes, or cranes of similar type must be handled in trains with heavy end forward.

Except those of Southern Pacific ownership, cranes or machines of similar type, with rotating body, loaded on open cars, must not be moved until inspected and released by mechanical department. Conductors must not move Jordan Spreaders, except when in use, unless wings are protected against spreading by chain or tie bar extending from wing to wing and wing arm to wing arm.

RULE 834. Open-top cars loaded with rail, pipe, structural steel, lumber, poles or mounted wheels, when such lading projects above sides and end walls of car, must not be placed in train next to cab of mallet

RULE 836. Cars moved from one station to another ahead of engine on descending grade must be chained to the engine. Switching movement on descending grades must be protected by a derail. When practicable engine must be kept on down hill end of cars.

When necessary to move cars ahead of engine do not exceed 20 miles

RULE 843. When a train is split at two sidings for the purpose of meeting or passing trains, conductor must accompany both portions of

RULE 869. Trainmen will ride on top of trains through yards, entering and leaving terminals, through interlocking plants, also Vincent to Saugus, Vincent to Palmdale, Summit Switch to Mojave, Summit Switch to Ilmon, Tunnel to Burbank excepting rear brakeman, Searles to Cantil, William of the Conductor McKittrick to Lokern and at other places as instructed by Conductor. Additional swing men must ride near the middle portion of train assigned to them. Trainmen must not ride on top of their train while passing through Tunnel 25.

RULE 883. Engines under steam must not be stored or left unattended on tracks that are not protected by derails against entry to main

AUTOMATIC BLOCK SYSTEM

RULE 509. A train or engine, when backing out of a siding or other track in block system limits, will, unless backed to clear block signal, proceed as if signal be in stop position.

Eastward freight trains having more cars than can be placed between San Fernando Road and home interlocking signal at Burbank Junction; if automatic home signal 4706 indicates stop, must stop west of crossing and communicate with signal operator by telephone located on post opposite signal 4706.

RULE 509 (e). That portion reading: "And the intervening track is seen to be clear," is interpreted as referring to the track being clear

That section of track in Fresno between Tuolumne Street and Ventura Avenue is not protected by block signals. Be governed by third paragraph Rule 93.

Dwarf light signals governing movements to main track located as Dwart light signals governing investments to main that a tocated as follows: Signals 2020 and 2022 Clinton Ave., Fresno, Signals 2565 and 2625 at Exeter, Signal 2870 Ducor, Signal 3627 Summit Switch, and Signal 3679 Eric. The first switch or derail lined, dwarf signal will indicate stop. When all switches and derail are lined dwarf signal will indicate proceed. If signal indicates stop after proper line up has been made, a train will not move to main track except as provided by Rules 509 and 99.

Fresno.-West switch and derail of running track, Fresno Yard near Biola Jct., the Biola main track junction switch and derail, and switch No. 2 track west of Ashland Ave. are hand operated by using the switch levers on side of electric switch machines.

Signals governing movements from Biola Branch and from the west end of No. 1 track will indicate stop until derails and switches have been properly lined for route desired, when signals will indicate proceed.

Exeter.-Signal 2628 at junction Visalia Branch and Porterville main track normally indicates stop until crossover lined for movement to

Bena.-Eastward trains leaving siding will be governed by dwarf light signal 3282 which will indicate proceed after siding switch has been thrown to reverse position for two minutes.

Tehachapi.-Trains on No. 1 track at Tehachapi ready to leave, finding dwarf light signal 3595 at stop, will push button located in box on post two feet east of signal 3593. After pushing this button signal will clear in two minutes if no trains in block.

Warren.-When dwarf light signals located at either end of siding indicate stop, trains entering will be preceded by a flagman.

Searles.-Automatic block signals 4277 and 4268, located at east and west end of Tunnel 29 at Searles.

Knife switches have been installed in relay boxes located at these signals for use of operators of motor cars passing through tunnel.

Motor cars should stop and if signal indicates proceed, switch in box should be thrown to reverse position which will place signals at stop before entering tunnel. After passing through tunnel, stop must be made at signal and knife switch thrown to reverse position, which will clear signals.

The following block signals, equipped with a triangular number plate, have included in their control limits some special protective device. When indicating "STOP" careful inspection must be made of the track and structure as indicated below and it must be known that it is safe for passage of trains before proceeding.

Signals	Location
2016	Clinton Ave., Fresno Spring switch, end of double track.
3281	BenaSpring switch, end of double track.
3308	IlmonSpring switch, west end.
3450	RowenSpring switch, west end.
3512	WalongSpring switch, west end.
3564	Cable Spring switch, west end.
3592	TehachapiSpring switch, west end.
4574	
4579	Culvert 457 D.

Block signals 4500 to 4513 Saugus govern movement of trains entering yard. If signals indicate stop, after stopping, train may proceed with caution, not exceeding 12 miles per hour.

OIL BUFFER SPRING SWITCHES

When a block signal in advance of a facing point oil buffer spring switch indicates "STOP", careful examination of switch must be made before passing over it.

When making trailing point movement and train is stopped on switch, a reverse movement must not be made, nor the slack taken until the switch has been thrown by hand. When movement has been completed through switch, reverse movement must not be made until

Running switches are prohibited and sand, blow-off cocks, and injectors must not be used nor boosters started while passing over these

Oil buffer spring switches are located as follows, and speed indicated must not be exceeded when passing over such switches. H.

must not be exceeded when passing over such	SWITCHOS.	M.P.
Fresno, Clinton Ave., end double track	Trailing westward	35
	Facing eastward	25
Fresno, junction Los Banos line	Trailing eastward	15
and an experience of the contract of the second and the	Facing westward	10
Bena, end double track	Trailing eastward	35
	Facing westward	20
Bena, west end siding	Trailing westward	50
Ilmon, west end	.Trailing westward	30
when old to arrived all tolerance was relevanted	Facing eastward	30
Caliente, west jct., eastward and westward	Trailing westward	10
sidings	Facing eastward	10
Caliente, east jct. eastward and westward	Trailing eastward	10
sidings	Facing westward	10
Allard, west end	Trailing westward	30
marked than another an experience and another dis-	Facing eastward	30
Bealville, west jct. eastward and westward	Trailing westward	10
sidings	Facing eastward	10
sidings Bealville, east jct. eastward and westward	Trailing eastward	10
sidings	Facing westward	10
Rowen, west end	. Trailing westward	30
Walong, west end	Facing eastward	30
Walong, west end	Trailing westward	30
	Facing eastward	30
Marcel, west jct. eastward and westward sid-	Trailing westward	10
ings	Facing eastward	10
Marcel, east ict, eastward and westward sid-	Trailing eastward	10
ings	Facing westward	10
ings	.Trailing westward	30
Tehachapi, west end	. Trailing westward	30
		30
Summit Switch, east end	. Trailing eastward	50

RULE 516. Overlap post is located at:

Newhall-Eastward trains-2000 feet east of west switch.

INTERLOCKING

At all interlocking plants, when route lined is not to be used, following signal will be sounded by Engineers, two short, one long and two short (oo-oo).

FRESNO TOWER—A. T. & S. F. Crossing 1.6 miles east of Fresno on Clovis Branch

For main track, one long whistle (----). To or from spur track, one short and two long whistles (o --).

SUN MAID TOWER-A. T. & S. F. Crossing 1.5 miles east of Fresno on Porterville main track One long whistle (----).

CALWA TOWER-A. T. & S. F. Crossing and double track 3.6 miles east of Fresno

Eastward trains approaching end of double track will call for switch and derailer by one long, one short and one long whistle (---- o --

Westward trains, one long whistle for crossing and for double track

HANFORD TOWER-A. T. & S. F. Crossing 0.3 miles west of Hanford One long whistle (----).

TULARE TOWER-A. T. & S. F. Crossing 0.3 miles west of Tulare

One long whistle (----). KERN JCT. TOWER—A. T. & S. F Crossing, double track and McKittrick Branch 0.7 mile east of Bakersfield

For main track, one long whistle (----).

For movement over crossing on siding, one long, one short and one long whistle (----- o -----).

From S. P. to A. T. & S. F. main track, one short and two long

Between main track and transfer track, one short, one long and one short whistle (o ---- o).

No. 1 track, two short, one long and one short whistles (o o ----- o). Dwarf light signals opposite end of double track governing westward movement are as follows:

> Green...... Westward track to S. P. single track.
> Yellow...... To Santa Fe westward double track or S. P. No. 1 track.

Dwarf light signal for eastward movement is located at west limits of interlocking plant. Light signals as follows:

Green..... Eastward main track. Yellow..... Against current of traffic.

Transfer tracks have pipe connected derails to main track (transfer switch).

At Kern Jct. only, Rule 628 is modified to permit movement, without stopping, of helper cuts only, past interlocking signals in stop position, provided yellow signal is received from the towerman in tower or on ground, and helper engineer sees that track is properly lined for movement to be made. TEHACHAPI

Main track movements (to or from double track) one long whistle

No. 1 siding, one short, one long and one short whistle (o ---- o). Trains or engines entering interlocking limits, except where fixed signals govern movements must receive authority from signal operator when may proceed with caution, not exceeding twelve miles per hour to

CALIENTE, ALLARD, BEALVILLE, CLIFF, WOODFORD, MARCEL

The east and west switches of sidings at Caliente, Bealville, Cliff, Woodford, Marcel and the east switch of siding at Allard are interlocked and controlled from Telegraph office. All other switches are hand throw. The switches and signals at Allard and Cliff are controlled by

Interlocking limits extend on main track from the eastward signal, located fifty (50) feet west of the west switch, to the westward signal, located fifty (50) feet east of the east switch at Caliente, Woodford and Marcel, and on both main track and siding at Woodford, and at Beal-ville from the eastward signal, located fifty (50) feet west of the west switch Allard to westward signal, located fifty (50) feet east of the east switch Cliff. All signals within these limits are interlocking, except Signals 3412 and 3417, which are automatic.

When the eastward interlocking signals east end Bealville or the westward interlocking signals west end Cliff are inoperative, trains must be preceded by flagman to the next signal.

Trains stopped by signals must communicate with signal operator by telephone located in telephone booths at east and west switches and be governed by his instructions. Additional telephones are provided at derail west end No. 2 siding at Woodford, and at derail of house track extension at Caliente. If instructed by signal operator to throw interlocked switch by hand, follow instructions posted in telephone booth. The member of crew cranking switch over, after receiving permission from signal operator, must notify rear member of his crew in order that switch will be returned to normal position, or remain at switch and return it to normal position, unless instructed by signal operator to leave

When for any reason, proceed indication of an interlocking signal cannot be acted upon at once signal operator must immediately be

When pulling out of sidings at Caliente, Bealville and Marcel, where both sidings are occupied with trains moving in same direction, both trains will stop at clearance point and enginemen will have an understanding as to which train will move out of siding first, unless otherwise directed by the dispatcher.

Trains or engines entering main track, except where fixed signals govern movement, must receive authority from signal operator, then may proceed with caution, not exceeding 12 miles per hour to next signal.

At Cliff, Spur switch west end siding will be hand operated and trains must not enter or leave spur except on telephone authority from signal operator at Bealville.

At Woodford "Take Siding Indicator" mounted on mast of west-ward interlocking signal will govern westward trains that are to use No. 2 siding. When take siding indicator displays letter "S", it will be necessary to phone operator for permission to pass westward interlocking

When westward third class and extra trains are given main track Allard, and unable to proceed farther ahead of superior trains in same direction, they will immediately advise the signal operator at Bealville.

Trains entering sidings at Caliente, Bealville and Marcel will stop clear of adjacent siding unless a proceed signal is indicated in light signal governing the movement to main track.

LOS ANGELES YARD - BURBANK JUNCTION TOWER

To Roscoe or Los Angeles, one long (----). To siding, five short (o o o o o).
To Hewitt, one long, four short (— o o o o).

To industrial lead, one short, one long, one short (o — o).

TRAIN AND AIR INSPECTION

At the following stations freight trains descending grade between Caliente and Lang will stop 10 minutes to allow heat to equalize in wheels and make inspection:

Ravenna.

Marcel Rowen.—Or in making other stops, inspection may be made provided initial run is not to exceed 8 miles, succeeding runs not to exceed 10 miles.

A continuous run of 10 miles will not be made where the run from the last inspection point was less than 7 miles.

Warren.

Owenyo Branch.—Rand. Keeler Branch.—Hammil.

McKittrick Branch.-M. P. 353.

Between Bakersfield and Fresno freight trains may operate from one water stop to another for inspection provided in the judgment of the conductor and engineer it is safe to do so.

Run may be made by westward freight trains, Saugus to Lancaster; Ravenna to Mojave and Cantil to Leliter without stopping for train inspection when in the judgment of the conductor and engineer it is safe to do so. Inspection will be made at any intermediate stops.

Freight trains not stopping at Summit Switch will make running air brake test between wye switches as follows: While working steam, engineer will make a reduction of approximately 7 pounds, waiting for slack to adjust itself and then add about 3 pounds, making total reduction of 10 pounds before releasing.

Conductor will note reduction on caboose gauge and following build up in pressure when brakes are released, then give proceed signal which will be relayed by other trainmen from their portion of the train, providing they note retainers releasing in their vicinity.

If conductor is on the head end, the rear brakeman is held responsible for such observance of the gauge as will insure against danger from closed angle cock or low pressure.

When such observance indicates danger, take every needed precaution as the circumstances warrant.

If release of brakes cannot be made at a greater speed than 15 miles per hour on trains of not more than 75 cars or at 20 miles per hour with slack stretched on trains of 75 to 100 cars, stop and make rear end test.

Whenever rear end tests or running tests, whichever are required under the rules, have been made on eastward freight and passenger trains at Tehachapi, it will not be necessary to make running tests on such trains not stopping at Summit Switch.

Westward freight trains that do not have helpers to cut out at Vincent and do not stop there for other operating reasons, will turn up the retaining valves on the first ten cars behind the engine at the east distant signal approaching Vincent, and will make air brake running test between siding switches as follows:

While working steam and not allowing driver brakes to apply, follow the same procedure as outlined in instructions relative to making the freight train running test at Summit Switch, with the exception that a release may be made at a speed not slower than 8 miles per hour. If train has to stop for any reason, or if speed of at least 8 miles per hour cannot be made at time release is desired, standing air brake test as per Rule 24 of the air brake rules will be made.

On Eastward freight trains not having helpers to cut out or required to stop at Vincent for operating reasons, they will follow the same procedure as outlined in next paragraph above, except that one retaining valve for each 115 M's contained in train will be used. These retaining valves must be turned up at or near west distant signal, the retaining valves on head portion of train to be turned up first.

Standard brake pipe pressure for freight and mixed trains on the San Joaquin Division, will be 80 pounds.

AIR BRAKE RULE 16.

Emergency hose must be used on all freight trains between Los Angeles and Bakersfield.

Trains of 50 cars or less 2 emergency plugs will be used located approximately 20th and 40th cars from engine.

Trains of 50 to 71 cars 3 plugs located approximately between 20th, 40th and 60th cars from engine.

Trains of 71 to 100 cars 4 plugs located approximately on the 20th, 40th, 60th and 80th cars from engine.

Trains of 100 to 124 cars 4 plugs located on the 20th, 40th, 60th and

100th cars from engine.
On westward freight trains plugs will be fastened on east end of car

and on eastward freight trains on west end of car. Emergency hose will be handled by carmen at Los Angeles and Bakersfield, but must be applied and removed when necessary by trainmen at intermediate stations and placed in caboose.

In applying these hose efforts should be made to apply them between through loads so as to avoid having to change them enroute where emergency is encountered.

AIR BRAKE RULE 24.

Rear end test will be made in accordance with Rule 24-B, and this test will also be made at the following places under the conditions here-inafter stated; except under conditions outlined in Rule 24-C.

Vincent......Freight trains stopping. Summit Switch..... Freight trains stopping. Mojave......Freight trains stopping.

Mojave......Freight trains not originating.

In territory Saugus to Bakersfield, Sunset Ry., Owenyo, Keeler and McKittrick Branches.

Leading engineer will not signal for rear end test on trains having helpers until such helpers indicate by one blast of the whistle that the train is ready for the test.

Before a train which has stopped on grade is signalled to proceed, air gauge in caboose must be observed. If gauge indicates brake pipe unobstructed and registers a pressure of not less than 65 pounds, proceed signal may be given.

AIR BRAKE RULE 32.

The maximum tonnage per operative brake between Caliente and Mojave is 115 M's, Mojave and Saugus 120 M's, Searles and Garlock 150 M's and Benton and Hammil 50 M's.

AIR BRAKE RULE 33.

Retainers will be used on freight trains as follows:
Eastward trains..... Cameron to Mojave.
Eastward trains..... Vincent to Lang.
Eastward trains..... Benton to Hammil. Westward trains..... Vincent to Harold. Westward trains..... Tehachapi to Tunnel One. Westward trains..... McKittrick to Lokern. Westward trains..... Searles to Garlock.

Eastward freight trains stopping at Summit Switch and on which the retainers have been turned up, if train brakes applied, a speed of 20 miles per hour must not be exceeded Summit switch to one mile east of

On freight trains descending grade Tehachapi to Tunnel 1, Cameron to Mojave and Vincent to Lang, one pressure retaining valve must be used for each 115 M's in train. Searles to Garlock one pressure retaining valve for each 150 M's, and Benton to Hammil one pressure retaining valve for each 50 M's must be used.

Descending grade between Vincent and Harold, use ten retaining valves.

One retaining valve must be turned up for each 400 M's in eastward freight trains of 45 or more cars as follows:

At Tunnel or Sylmar turn up each alternate, beginning with head car; at Pacoima turn down those in use and turn up each alternate, beginning with next to head car; at Burbank Junction turn down.

Speed of freight trains will be reduced at points where trainmen are required to handle retainers.

Retainers on eastward freight trains entering Mojave must not be turned down until train comes to rest on designated tracks.

Freight trains taking siding where it is necessary for them to open their own switch, and where necessary to apply train (automatic) brakes, stop and allow sufficient time to insure release of all brakes.

AIR BRAKE RULE 39.

Passenger Trains: Make running air brake test at Summit Switch and between initial and crossover switch at Vincent. Not necessary to make running test on passenger trains leaving Mojave that have not had the continuity of the brake pipe broken. Eastward Santa Fe passenger trains leaving Kern Jct. will not make running test. Within yard limits of Fresno, running air brake test will be made on eastward trains only when leaving Fresno.

Running test must be made on eastward trains three miles west of

On westward passenger trains leaving Bakersfield, running test shall not be made until rear car has cleared Baker Street.

AIR BRAKE RULE 46.

Unless otherwise provided, retainers will be used on passenger trains as follows:

Westward trains..... Tehachapi to Tunnel 1—All retainers

Retainers on all head end cars of eastward passenger trains (except Train No. 56) will be turned up at Summit Switch, remainder of retainers to be turned up at Cameron without stopping, all retainers being used to Mojave. When retainers are thus used speed of trains must not exceed 45 miles per hour.

Retainers on all head end cars on Train No. 56 will be turned up at Tehachapi, remainder of retainers to be turned up at Cameron without stopping, all retainers being used to Mojave. When retainers are thus used speed of train must not exceed 45 miles per hour.

Unless otherwise provided, trains having not to exceed two head end cars available retainers will be used Cameron to Mojave and Tehachapi to Tunnel 1.

MISCELLANEOUS

1. Freight trains with twenty or more cars will detach engine when taking water except at the following stations:

All points on the Valley district Caliente.... Eastward trains Ravenna.... Westward trains Woodford Eastward trains Lang Westward trains

Leading engine on freight trains descending grade must be detached while taking water at San Fernando.

In freight service with over 30 cars where it is necessary to make a short move to reach water or oil column, including that required to spot second engine of double header, locomotive must be cut off before spotting

Water supply at Bealville, Marcel and Cameron is for emergency use only.

In taking water on freight trains with helper cut in, train will be cut ahead of first helper from head end and will back to point where it is to take water, except at Woodford where first helper spots at No. 3 water column. After stopping, train will be cut ahead of following helper.

4. Helpers will be handled as follows:

SUMMIT SWITCH: On 3 and 4 engine trains, after stopping, second helper take charge of air making movement. If 3 engine train, cut out first or head helper, then second helper. If 4 engine train cut out first helper, then third or rear helper, then second helper. Helper engines cutting out of eastward trains at Summit Switch enter wye from east leg.

ERIC: Under ordinary conditions let engine in on west leg of wye and back train to a coupling.

MOJAVE: Helpers will be coupled together on westward trains and placed ahead of caboose, taking into consideration rear end cars.

LANCASTER: Helpers will be coupled together on eastward trains and cut in ahead of caboose taking into consideration rear end cars.

VINCENT: On eastward trains road engine will stop to clear at east end, helpers will be cut out and used to shove rear of train to a coupling. When helpers go east of Vincent they will remain coupled in train until released. Unless otherwise instructed helpers will cut out at Vincent.

Should a stop be made short of a turnout at a point where helpers are to be cut out, cut will be made ahead of leading helper and train engine will pull head portion to clear, to prevent damage done by helper in shoving during short move.

In movement of light engines between Bakersfield and Mojave the number of engines coupled is restricted to four.

Two engines of "GS" type must not be coupled descending grades

where curvature is 10 degrees or over.

For the purpose of pushing trains out of yards:

(a) No locomotive will be placed behind wooden underframe caboose or other wooden frame equipment.

Locomotives weighing more than 235,000 pounds on the drivers will not be placed behind steel underframe cabooses.

Air will not be coupled through the pusher engine. Yard engines regularly so used will be equipped with Russell-Jordan device to hold the coupler pin from dropping, thus making it unnecessary for employes to uncouple the pusher engine when

In no case shall the knuckle be removed, or closed, or cutting lever temporarily fastened in release position on a pusher engine,

as means of preventing coupling being made.
Unless local conditions require, it will not be necessary to stop trains to detach pusher engines.

In helper service:

(a) No helper engine will be placed behind wooden underframe cars or cabooses.

Locomotives weighing more than 235,000 pounds on the drivers will not be placed behind steel underframe cabooses.

In no case will more than one helper engine be placed behind steel

underframe cabooses.

When helper engines are used in rear of freight trains, C and lighter class must be placed behind heavier class except between Burbank Jct. and Vincent, C and heavier class engines must be placed ahead of AC class engines.

The use of S.P. type engines backing in helper service, should be avoided if possible. When necessary to use them, other helper power must not be used to shove on this class of engine. In helper service, where it can be avoided, engine backing must

not be placed ahead of engines running forward Helper engines on freight trains must be placed in rear through Tunnel 25.

Engines with cars must not be cut off or coupled to a train while same is in motion.

Engines must not be cut off head end of trains while same are in motion.

When helper engine is coupled behind caboose, angle cocks must not be turned and hose separated while train is in motion.

5. Engines will not be left on No. 1 track at Tehachapi while crews are eating. When engines are left with no one attending, the reverse lever will be left on center, cylinder cocks will be left open, independent brake valve or straight air valve will be left in service position, noting amount of brake cylinder pressure before leaving the engine. No member of crew will leave their engine before engine has come to rest, and when engine or engines are left alone, tank brakes should also be set in addition to independent brakes.

This will apply at other points where similar conditions exist.

7. Engines heavier than Consolidation must not leave main track between Mojave and Searles, except at sidings Neuralia, Rand, Goler and Cantil. This does not confer time table authority. When holding main track comply with rule 99 in protecting head rights if necessary.

Should both trains have restricted power, train using siding must move slowly and cautiously using every precaution to avoid accident.

P-8, P-10 and heavier locomotives must not be used between Famoso and Fresno on Porterville Line or between Exeter and Goshen Jct.

8. At points where engine is to be changed, or cars set out or picked up on passenger trains, rear brakeman will open steam valve on rear of train at station one-mile board and engineman will shut off the steam one

10. Tracks at following stations must not be used by engines larger than Consolidation. Spurs at Bena, Caliente, Wahoo quarry, Tunnel water spur, Waltz powder spur, Elayon oil spur.

Engines heavier than F class must not use track serving Union Supply Co. or Graham spur or spur paralleling main tracks west of derail at Roscoe, or the transfer track at San Fernando beyond a point 300 feet beyond the switch points.

Engines must not use Consolidated Rock tracks, Roscoe, beyond a point 75 feet west of derails west of Radford Ave.

When switching the west end of Saltdale, with F class engines, use sufficient number of cars to prevent engine from going beyond frog.

Switching movement from spurs on heavy grades should be accomplished in a manner to make it impossible for cars to run out on main plished in a manner to make it impossible for cars to fun out of main track. This can be done by stopping train between switches and by switching from spur track to train, leaving switch lined for spur track until work is completed. Do not switch cars into a siding on grade where such siding is unprotected by derail. Do not handle cars ahead of engine descending grades when practicable to avoid same. Whenever possible, when switching on heavy grades, engine should be kept on down hill side of cars being hondled or such switching moves he made against a deof cars being handled, or such switching moves be made against a de-

17. No sanding of engines permitted between Tunnels 18 and 19.

20. Handling of freight cars in trains behind passenger cars carrying passengers prohibited. The term "freight car" does not include a baggage, express or mail car, or a caboose.

Baggage; express, mail, refrigerator or other head end cars must not be handled on rear of passenger trains unless trainmen can pass through them.

Pennsylvania Ry. refrigerator cars must not be handled coupled together in freight trains

23. Following will govern the handling of switches for the center sidings at Warren and Monolith:

Westward Trains-Heading in.

Switches will be handled in following sequence:

Westward main track switch.
 Center siding switch.

Derailing switch.

After Train is in siding.
1. Westward main track switch.

Derailing switch.

3. Center siding switch.

Eastward Trains.

Switches will be handled in normal manner.

27. In addition to one engineer, one fireman and one conductor, each steam freight, mixed or work train must have two or more brakemen, as noted below, if more than 4 trains are operated each way per day.

Grade	No. Cars in Train	No. Brakemen
1% or under		2
	50 to 75 inclusive	
	76 to 100 "	the state of the s
	101 to 125	
10% to 11/6%		2
1/0 00 1/2/0	50 to 62 inclusive	3
	63 to 87 "	
	88 to 112 "	
	"	6
	50 to 57 inclusive	0
"	58 to 72 "	4
4	73 to 87 "	5
	88 to 102 "	6
	103 to 117 "	7
	118 to 125	8

1% or under	1% to 1½%	Over 1½%
Fresno-Bakersfield Clovis Branch Riverdale Branch Coalinga Branch Visalia Branch Stratford Branch Richgrove Branch Arvin Branch Rosamond-Palmdale	Bakersfield-Ilmon Tehachapi-Eric Mojave-Rosamond Success Branch Owenyo-Keeler San Fernando-Burbank Jct.	Ilmon-Tehachapi Eric-Mojave Palmdale-San Fernand Owenyo Branch McKittrick Branch Benton-Laws

28. Train movements on Richgrove Branch will not be authorized by train orders. Trains using this Branch will do so under flag protec-

Flagman will be left at Richgrove with written instructions on Form CS 2511 regulating the movement of other trains desiring to use this

SPEED RESTRICTIONS

Maximum speed of any passenger train must not exceed 50 miles an hour except as otherwise provided for:

Maximum speed of any freight or mixed train must not exceed 35 miles an hour except as otherwise provided for:

Speed Restrictions in Miles Per Hour, Will Apply as Follows:

Ann Ann		PASSENGER					FREIGHT				LIGHT ENGINES RUNNING FORWARD			
Page No.	TERRITORY	Maximum	With E T-26, 32, 37, 40 P A Motors	With M T 1, 2, 8, 9, 23, 28, 31, 36, 57, 58 MK 5, 6, 7, 8, 9	With Mt. GS Sta. Fe Mt. type	With C 2 to 10 Incl C 18 to 29 Incl. F AC 4,5,6, MM, AM SP	Freight and Mixed Maximum	Engines Backing With or Without Cars	Yard Engines S-SE Type	E T 28, 32, 37,40 A Mt. 1, 2, 3, 4, 5 Santa Fe Mt. type	M T 1, 2, 8, 9, 23, 28, 31, 36, 57, C 2 to 10 incl. C 18 to 29 incl. MK 5, 6, 7, 8, 9	F SP GS Santa Fe 3800 type	C 12, 15, 17 TW MK 2, 4, 10 AC MM AM	
2, 3, 7 2 2 2, 4 3 3 3 4 4 4 4	Biola JctCalwa Tower, except. In City Fresno along or across street crossings. Calwa Tower—M.P. 259.6, except. A. T. & S. F. Ry., crossing at Tulare Tower. M.P. 259.6—M. P. 304. Mile Post 304—East switch Oil Jct. East switch Oil JctOne mile east Kern Jct., except over street crossings in Bakersfield. Fresno—Famoso, except. On curves at Mile Post 218.54 and 218.74. On curve west of Orris. One mile east Kern Jct.—Mile Post 325.6. Mile Post 325.6 and 326.0. Mile Post 326—One mile west Ilmon. One mile west Ilmon - West Switch Tehachapi. West Switch Tehachapi - One Mile east of Cameron	60 40 65 60 35 20 45 35 35 55 40 50	50 20 60 40 65 60 35 20 45 35 55 40 50 30	50 20 50 40 50 50 35 20 45 35 35 50 40 50	50 20 60 40 65 60 35 20 55 40 50 30	45 20 40 40 40 40 35 20 45 40 45 28 45	40 40 40 40 40 20 20 30 40 40 40 40 50 50 50 50 50 50 50 50 50 50 50 50 50	30 12 30 30 30 20 20 20 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	20 12 20 20 20 20 20 20 20 20 20 20 20 20 20	40 12 40 40 40 20 20 20 20 40 40 40 40 40 55 55	35 35 35 35 35 35 35 20 20 20 20 35 35 35 35 35 35 35 35 35 35 35 35 35	35 35 35 35 35 20 20 20 30 20 35 35 35 35 35	30 12 30 30 30 30 20 20 20 30 20 30 30 30 30	
4, 5 5 5 5 5 5 5 5 5 5 5	One mile east of Cameron—Mojave, except. Westward freight trains Mojave to one mile east of Cameron. Mojave Yard, between Standard Oil switch and extreme east switch. Mojave - Palmdale. Palmdale - Mile Post 417, except. Westward freight trains M. P. 417 to Palmdale Mile Post 417-Lang. Lang-Saugus. Saugus - Burbank Jct., except. East switch Saugus and West Portal tunnel 25 West Portal funnel 25 and M.P. 458.80 - 458.94.	15 55 50 30 30 50	15 55 50 30 30 50 40 30 40	15 50 50 50 28 28 50 40 30 40	15 55 50 30 30 50 40 30 40	15 45 45 45 28 28 45 40 30 40	20 35 10 40 40 22 20 22 35 25 20 25	10 30 30 30 15 15 30 25 20 25	15 20 20 20 15 15 20 20 20 20	25 40 40 40 25 25 35 25 20 25	25 35 35 35 25 25 25 25 20 25	25 35 35 35 20 22 35 25 20 25	25 30 30 30 22 22 30 25 20 25	
5 6 6 6 6 6 6 6 7 7 7 7 3 3 3 3 7 7 8 8 8 8 8 8 8 8 8 8	M.P. 458.14 - 471.60 (eastward frt. trains only) Burbank Jct. (Crossover west of tower (Crossover east of tower Armona-Crump, except Over trestle at M.P. 267.3. Hardwick-Goshen Jct Goshen JctExeter, except On curve at Goshen Jct. and curve at Ambler Ingle - Hardwick, except Mile Post 219 - Kings River Bridge. Rossi - Stratford. Fresno-Gordon, except On curves at Barton and Maltermoro. Over Fresno Interurban tracks, Las Palmas. Gordon-Friant. Porterville-Clavicle-Pernu, except On curves, Success and Pernu branches. Richgrove-Jovista, except On curves, Richgrove branch. Kern JctM.P. 354½. Mile Post 354½-Olig. Mojave-Owenyo, except. F-4&F-5 engines-Mojave-Searles. Over west siding switch, Owenyo.	20 20 25 25 20 15 20 15		30 35			25 20 20 25 15 25 30 20 20 25 20 25 20 15 20 15 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 20 25 20 20 25 20 20 20 20 20 20 20 20 20 20 20 20 20	20 20 15 15 15 15 15 15 15 15 15 15 15 15 15	20 20 15 20 20 20 20 15 20 20 15 15 15 15 15 12 20 20 20 20 20 20 20 20 20 20 20 20 20	30 20 25 15 25 30 20 15 25 25 20 15 20 15 20 15 20 15 20 15 20 15 20 15 20 15 20 15 20 16 20 17 20 18 20 18 20 18 20 18 20 18 20 18 20 20 20 20 20 20 20 20 20 20 20 20 20	12 25 15 25 10 30 25		30 20	
8	Laws - Keeler, except. M.P. 557-552 and M.P. 550-547. Zurich—M.P. 520½. M.P. 529-528½.	30 25 25					20 30 25 25 15	15 15 15 15 15		ning f	w gauge forward y miles pe	must no	gines run- t exceed	

SPEED OF TRAINS REGULATED BY ORDINANCE THROUGH CITY LIMITS

Page	STATION	Passen- ger	Freight	Back- ward	Page	STATION	Passen- ger	Freight	Running Back- ward
2-3-7 2 2	Fresno, along or across street crossings Fowler, between 6 A. M. and 9 P. M Selma, between 5 A. M. and 11 P. M	20 30 30	20 30 30	12 30 30	3 3 5	Exeter, between 5 A. M. and 11 P. M Lindsay, between 5 A. M. and 11 P. M San Fernando over street crossings east and west	20	20 20	20 20
2 2 3	Kingsburg, between 6 A. M. and 9 P. M	20	30 20 20	30 30 20 20	6	of station. Armona, Lake Street Crossing. Visalia.	25	25 20 15	25 20 15

At Fowler, Selma and Kingsburg it is lawful to increase speed to 40 M.P.H. after locomotive has passed last crossing within city limits in direction train is moving.

SPEED RESTRICTIONS

Passenger trains when handled by cross counter-balanced P-10, Mt., GS 1, 2 and 3 class power, are permitted maximum speed of 60 miles per hour between Mile Posts 463.79 and 470.80.

When cross counter-balanced F and AC 4 and 5 class engines are used in passenger service they are permitted maximum passenger speed between Burbank Jct. and Bakersfield.

Following engines have been cross counter-balanced:

All GS-1, 2, 3, MT-1, 2, 3, 4, 5. P-7, 8, 10, 12—2461, 2463, 2467, 2474, 2475, 2476, 2479, 2480, 2482, 2483, 2484, 2485, 2488, 2489, 2491, 3120, 3121, 3122, 3123, 3124, 3126, 3127,

F-1, 3, 4, 5—3625, 3634, 3652, 3656, 3658, 3665, 3666, 3676, 3677, 3681, 3685, 3687, 3692, 3706, 3709, 3711, 3716, 3727, 3728, 3732, 3737, 3742, 3752. AC-4, 5—4111, 4114, 4115, 4116, 4117, 4123, 4124.

Speed restrictions for engines are shown in speed table; however, attention is called to the following maximum speeds at which tenders may be operated subject to restrictions imposed locally:

Tenders having water capacity, 7,000 gallons or less, except classes 70-R-1 and 70-SC-1, maximum speed 50 miles an hour.

Engines operated coupled tender to tender must not exceed speed permitted for light engines of that class running backwards.

Maximum speed of disabled engines hauled in train, or running under own steam, must not exceed:

When pilot removed
When main rod only removed
When side rod only removed
When both main and side rods removed20 M.P.H.
When hauled in train and all rods are on30 M.P.H.
GS engines
SP 1, 2 and when inside main rod removed30 M.P.H.
S and SE engines and all other classes of engines

when not equipped with engine trucks 20 M.P.H.
When all weight has been removed from any one

F, SP, Santa Fe 3800 and AC class engines must not exceed 8 M.P.H. through switch turnouts, crossovers and slip switches.

When Santa Fe 3800 class engines are used in passenger service they are permitted maximum speed of 45 miles per hour between one mile east of Kern Jct. and one mile west of Ilmon: also between west switch Tehachapi and one mile east of Cameron.

When used in passenger service, AC 4 and 5 engines and Santa Fe 3700 and 3800 class engines are permitted maximum speed of 30 miles per hour between one mile west of Ilmon and west switch Tehachapi, also between Mile Post 417 and Saugus.

Engines not shown in speed table must not exceed freight speed.
When interlocking signals at Caliente, Allard, Bealville, Cliff, Woodford and Marcel indicate proceed trains may run at speed and through other interlocking plants with caution.

Trains must not exceed 30 miles per hour through limits of interlocking plant at Calwa Tower.

Trains must not exceed 6 M.P.H. over wye and packing house tracks at Locans, 10 M.P.H. through main track switch Hardwick, 10 M.P.H. Pinedale to Mill site formerly Mineratts and Western, 10 M.P.H. on pocket track Saugus extending west from Westward siding and 8 M.P.H. on spur leading to quarry from wye at Beneme.

Trains must not exceed 10 M.P.H. through sidings, over crossovers and turnouts, except oil buffer spring switches. See list of such switches

on page 10.

Trains handling relief outfit must not exceed 25 miles per hour between Fresno and Bakersfield, Fresno and Famoso via Sanger, Armona and Exeter, Bakersfield and one mile west of Ilmon, one mile west of Tehachapi and one mile east of Cameron, Mojave and Mile Post 417, Saugus and Burbank Jct., and 20 miles per hour between one mile east of Cameron and Mojave, and must not exceed 15 miles per hour over other track. Where freight speed is less be governed thereby.

When locomotive Cranes, of the type SPMW 3636, are placed in trains, they must be handled with the heavy end forward, except where it is impossible to turn them, in which case they must be turned at the first available point. When handled with light end forward extreme care must be exercised and speed of 25 M.P.H. not exceeded.

All cars moved in passenger trains must be equipped with steel-tired or all-steel wheels. When cars not so equipped are offered for movement, they will be handled in freight trains—passengers, if any, to movement, they will be handled in freight trains—passengers, if any, to move on passenger train.

Trains consisting of engine and caboose only should be considered freight trains and speed restricted accordingly.

Trains carrying cabooses equipped with cast iron wheels must not exceed 40 miles per hour.

exceed 40 miles per hour.

Wooden passenger-carrying cars, wooden baggage, express and other head-end cars, unless equipped with steel center sills and steel platforms, must not be used in passenger service except upon authority.

Speed of trains handling such cars must be restricted as follows:

When consist includes not more than three wooden passenger-carrying cars, maximum speed must not exceed 50 miles per hour.

When consist includes more than three wooden passenger-carrying cars maximum speed must not exceed 40 miles per hour.

cars, maximum speed must not exceed 40 miles per hour.

If consist of train includes wooden and steel passenger-carrying cars, wooden cars must be kept together and handled on the rear.

SPEED TABLE

SPEED PER HOUR	1 MILE IN MINUTES SECONDS	SPEED PER HOUR	1 MILE. IN MINUTES SECONDS						
6	10.00	24	2.30	37	1.37	50	1.12	63	0.57
8	7.30	25	2.24	38	1.34	51	1.10	64	0.56
10	6.00	26	2.18	39	1.33	52	1.09	65	0.55
12	5.00	27	2.13	40	1.30	53	1.08	67	0.54
15	4.00	28	2.08	41	1.27	54	1.06	68	0.53
16	3.45	29	2.04	42	1.25	55	1.05	69	0.52
17	3.31	30	2.00	43	1.23	56	1.04	70	0.51
18	3.20	31	1.56	44	1.21	57	1.03	72	0.50
19	3.09	32	1.52	45	1.20	58	1.02	74	0.49
20	3.00	33	1.49	46	1.18	59	1.01	75	0.48
21	2.51	34	1.45	47	1.16	60	1.00		
22	2.43	35	1.42	48	1.15	61	0.59	177	
23	2.36	36	1.40	49	1.13	62	0.58		

STRUCTURES LESS THAN STANDARD CLEARANCE

Mile Post		LOCATION		DESCRIPTION
		Fresno-Sa	ugus-Main Track	and the same of th
205.5 205.5 220.7 313.2 313.2 313.2 313.2	Fresno Selma Bakersfiel Bakersfiel Bakersfiel	d, east end Round House lea d, roundhouse turnout tracks d	Pullman shed Libby-McNeil d Water column s Sandhouse P. F. E. ice do	out Side Side Side Side Side Side Side Side
313.2 313.2 434.8 439.5 440.1 441.5 445.3 449.7	Bakersfie Bakersfie East of R East of L East of L East of L	d d d d d d d d d d d d d d d d d d d	Air pump hou Gravel Bunke Tunnel 17 ½ Tunnel 20 Tunnel-21 Tunnel 22 Tunnel 23	se. Side rs, Gravel Pit Side and Overhead Overhead Overhead Overhead Overhead Overhead Overhead Overhead Overhead
440.7	Last of h		moso via Porterville	vernead
205.5 225.3 257.4 257.4	Fargo		S. J. L. & P. C. Southern Paci	Corp. plant Side and Overhead fife Freight Shed Side yout Side R. R. trolley poles Side
		Goshen	IctCoalinga-Ingle	
229.1 268.4	Armona.		Water tank sp	ooutSide
		Fr	esno-Friant	
205.5	Clovis		Water tank sp	ack, FultonSide
		Bak		
345.4	Kilowatt			Overhead and Side
	and the contract	Mo	jave-Owenyo	The month of the late of the l
402.5 426.8 484.1 523.0	West of S		Tunnel 29 Water tank sp. Highline trest	outSide outOverhead outSide le on Calif. Alkali Co. Spur Overhead and Side
	Line A	Saugus-	Burbank Junction	service of the Power of the Prince of
453.7 465.6 465.6 467.9 467.9	Wahoo Wahoo Roscoe		ndard Oil Co. filling a solidated Rock Co. r solidated Rock Co. r solidated Rock Co. t	racksSide and Overhead oiles of rockSide and Side ounkersBoth Sides and piles and switch standsSide
car of g	reater heigh	apron on beet dump and beet at than a beet rack. Turk Kingsburg	Tagus McFarland	t stations listed below will not clear a Famoso Buttonwillow

Employes are warned that it is dangerous to ride on top or sides of cars at above-mentioned points. Employes must guard against coming in contact with overhead wires or their connections.

	CONDIT	AIR-	CONDITIONED			
· CLASS	All-Steel	Steel Under- frame	All-Steel Cooling Season	All-Stee Heating Season		
Baggage—60 ft	93,070					
" —66 ft	127,610					
-70 ft. (With Auto. End Door)	122,620					
" —70 ft. (With Auto. End Door) "—(Dynamo)	125,800 98,730					
_(Dynamo)	90,700	87,120				
Baggago & Mail-60ft	103,620					
# # -69ft	124,760					
70 ft	129,140	100 100				
" Passenger	108,675	103,590 112,640				
Express Refr.—N. P. Rv	100,010	74,000				
Express Refr.—N. P. Ry		78,000				
* - * 153-224		89,000				
* - * 500-506 * - * 1101-1175		110,000 85,000				
" -P. F. E. " 500-799		83,000				
# # _ # 1101-1175 # #P. F. E. # 500-799 Express, Horse	133,050					
PostalStorage—40 ft	74,530					
Assembly (ACW)	105,120		168.950	168,950		
	146,210	122,300	168,950 172,200	164,700		
Club(ACI) Official(NAC)	170,700	122,300 155,370				
Citio (ACI) " — Cars 107-128(ACW) " — Cars 140-141(ACW) Chair—80 ft. (ACI) " — 72 ft. (ACI) " — 72 ft. (ACW) " — 8 ft. (ACW) " — 8 ft. (ACW)			182,800 195,040	182,800		
-Cars 140-141(ACW)	100 690		138,000	195,040 132,00		
" —72 ft (ACI)	. 100,020		165,000	157.80		
" —72 ft(ACW)			158,700	157,80 158,70		
" -Streamline-Single (ACS)			158,700 120,900	104,50		
" - " -Art(ACS)			205,400	1 172 60		
-74 It(ACI)			180,915 197,944	173,123 181,600 130,100		
Coaches—60ft (ACI)	98.130		136,100	130,10		
" -70ft(ACI)	. 137,640		157,800 151,000	151,00		
" —70 ft(ACW)	. 137,640		151,000	151,00		
" —72 ft(ACI)			164,500	157,40		
73 ft. 6 in (ACW)			153,500 163,000	153,50 163,00		
- 73 ft. 6 in(ACI)			168,500	161,20		
-72ft. (Interurban)	. 120,000					
All-Day Lunch—Chair	105,970					
Cafe-Coach (ACI)	100,010	138,600	155,700	149.00		
Cafe-Lounge(ACI)	. 148,950	161,200	155,700 173,500 156,000	149,00 166,00		
"(ACW)			156,000	156,00		
Daylight—(12-cartrain)(ACS)			1,344,080 118,940	102 54		
-Art. Chair. (ACS)			203.640	156,00 1,147,28 102,54 170,84 114,45		
-Tavern(ACS)			130,850	114,45		
—Diner(ACS)			203,640 130,850 129,860 115,880	113,46 99,48		
-Parlor Observation (ACS)			115,880	102,29		
" —72 ft. (ACI) " —72 ft. (ACW) " —Streamline—Single (ACS) " — Art. (ACS) " —74 ft. (ACI) " —74 ft. (ACI) " —70 ft. (ACI) " —70 ft. (ACI) " —70 ft. (ACI) " —70 ft. (ACI) " —72 ft. (ACW) " —72 ft. (ACW) " —73 ft. 6 in. (ACW) " —73 ft. 6 in. (ACW) " —73 ft. 6 in. (ACI) " —72 ft. (Interurban) All-Day Lunch—Chair. " —Coach (ACI) Cafe-Coach (ACI) Cafe-Lounge (ACI) " —Comb. Baggage & Coach (ACS) " —Art. Chair. (ACS) " —Art. Chair. (ACS) " —Art. Chair. (ACS) " —Parlor. (ACS)		135,930	118,090	102,29		
" −72 ft	. 155,330 156,000					
" -77 ft. (Arch Roof)(ACI)	. 156,000		170,100	162,70		
" -72 ft. (Arch Roof) (ACI). " -77 ft. (I ") (ACW). " -77 ft. (Clere Story Roof) (ACW). " -77 ft. (I ") (ACM). " -79 ft. (I ") (ACM). " -79 ft. (I ") (ACM). " -80 ft. (Clere Story Roof) (ACM). Lounge (Arch Roof) (ACI). " (ACI). " (ACI). " (ACW).		165,530	170,100 162,950 169,450 189,581	160 45		
" -77 ft. (" " ")(ACM).		100,000	189.581	162,70 162,95 169,45 173,83		
* -79 ft(NAC)	. 169,100					
" -80 ft. (Clere Story Roof)(ACM).			201,323 189,800 167,500 164,980	184,70		
Lounge (" ")(ACI)			189,800	181,63		
(Acw)			164,980	181,63 160,30 157,78		
			109,185	161,90		
# 77 f4 (ACT)			194,543	186,16		
Pullman—Observation. (ACI). (ACM).	180 900	. 141,870 153,000	177 314	180 20		
" — " (ACM)	160,800	153,000	177,314 192,300 194,900	169,20 176,30 178,90 179,60 176,00 179,80 175,10 171,50 169,20 161,40		
Lounge(ACM).	. 171,200		194,900	178,90		
(ACI)	. 171,200		187,682	179,60		
-Bedroom(ACI)	167,600		183,920	176,00		
-Sleeper (ACM)	163,100		191,100	175,10		
—Bedroom(ACI) — (ACM) —Sleeper(ACM) — (ACI)	. 160,800 . 160,800 . 171,200 . 171,200 . 167,600 . 167,600 . 163,100 . 163,100 . 153,000 . 153,000 . 158,400 . 167,200		187,682 183,920 195,800 191,100 180,075 185,200 168,663	171,50		
	. 153,000		185,200	169,20		
Pail Cas Floatria 400 H P	158,000		168,663	161,40		
TRAIL VISS-PRICELFIC SUU PL.P	.1 108.400	1				

Steel underframe.

CODE:-NAC-Non-Air Conditioned.

- -ACI -Air-Conditioned-Ice System.
- -ACM-Air-Conditioned-Mechanical System.
- -ACW-Air-Conditioned-Waukesha System.
- -ACS -Air-Conditioned-Steam Ejector System.

LIST OF SURGEONS

NAME	TITLE	LOCATION		
Dr. C. A. Walker	Chief Surgeon and Manager	San Francisco, Cal		
Dr. J. D. Morgan	District Surgeon	Fresno, Cal.		
Dr. Chas. A. James	District Surgeon	Fresno, Cal.		
Dr. D. H. Trowbridge, Jr	o	Fresno, Cal.		
Dr. D. H. Howbridge, Jr	Oculist	Fresno, Cal.		
Dr. Wayne Hunt	Aurist	Fresno, Cal.		
Dr. O. B. Doyle	Asst. District Surgeon	Colmo Col		
Dr. J. D. Wagner	District Surgeon	Selma, Cal.		
Dr. W. H. Nielson	District Surgeon	Fowler, Cal.		
Dr. E. C. Halley	District Surgeon	Sanger, Cal.		
Dr. G. A. Hawkins	District Surgeon	Reedley, Cal.		
Dr. R. E. Cronemiller	District Surgeon	Exeter, Cal.		
Dr. Edgar Brigham	District Surgeon	Dinuba, Cal.		
Dr. Raymond W. Norberg	District Surgeon	Kingsburg, Cal.		
Drs. J. E. and C. I.	the second second second			
Pendergrass	Emergency Surgeons	Clovis, Cal.		
Dr. R. N. Fuller	District Surgeon	Tulare, Cal.		
Dr. C. M. Mathias	Acting District Surgeon	Tulare, Cal.		
Dr. J. Seiberth	District Surgeon	Pixley, Cal.		
Dr. Henry A. Rivin	District Surgeon	Delano, Cal.		
Dr. W. B. Smith	District Surgeon	Delano, Cal.		
Dr. F. R. Guido	District Surgeon	Visalia, Cal.		
		Hanford, Cal.		
Dr. C. T. Rosson	District Surgeon	Hanford, Cal.		
Dr. C. T. Rosson, Jr	Asso. Dist. Physician & Surgeon			
Dr. J. C. Drake	District Surgeon	Kerman, Cal.		
Dr. Geo. A. Meracle	Emergency Surgeon	Caruthers, Cal.		
Dr. Wm. P. Byron	District Surgeon	Lemoore, Cal.		
Dr. Bryson E. Cox	District Surgeon	Coalinga, Cal.		
Dr. P. S. Barber	District Surgeon	Porterville, Cal.		
Dr. W. W. Tourtillott	District Surgeon	Porterville, Cal.		
Dr. J. R. Fillmore	Emergency Surgeon	Strathmore, Cal.		
Dr. H. D. R. Shoemaker	District Surgeon	Lindsay, Cal.		
Dr. H. W. Bell	Division Surgeon	Bakersfield, Cal.		
Dr. C. L. Moore	District Surgeon	Bakersfield, Cal.		
Dr. J. M. Kirby	Consulting Physician & Surgeon.	Bakersfield, Cal.		
Dr. R. M. Jones	Oculist and Aurist	Bakersfield, Cal.		
Dr. Harold L. Schlotthauer.	District Surgeon	Tehachapi, Cal.		
Dr. Phil J. Vogel	District Surgeon	Mojave, Cal.		
Dr. M. A. Williamson	District Surgeon	Lone Pine, Cal.		
Dr. Howard W. Dueker	Acting Dist. Phys. & Surgeon	Lone Pine, Cal.		
*Dr. George D. Shultz	District Surgeon	Lone Pine, Cal.		
Dr. Harvey Crook	District Surgeon	Bishop, Cal.		
Dr. Thomas A. Drummond.	Emergency Surgeon	Randsburg, Cal.		
Dr. W. R. Senseman	District Surgeon	Lancaster, Cal.		
Dr. N. H. Snook	District Surgeon	Palmdale, Cal.		
Dr. E. C. Innis	District Surgeon	Saugus-Newhall, C		
Dr. R. W. Johnson		San Fernando, Ca		
Dr. R. W. Johnson	District Surgeon	Dan Fernando, Ca		

Note.—Emergency Surgeons should be summoned only for temporary treatment when prompt attention is required and when patients cannot be sent to or await arrival of Division or District Surgeon.

LOCATION OF HOSPITAL STRETCHERS

RESNO {	STOR	AGE ROOM E ROOM EF TRAIN	MOJAV	E BAGGAGE ROOM CAR SHOPS
OSHEN J				BAUGUS
BAKERSFI	ELD ·	BAGGAGE ROOM EMERGENCY HOSPITA RELIEF TRAIN CAR SHOPS MACHINE SHOPS	L]	EXETER PORTERVILLE COALINGA HANFORD OWENYO KEELER
g2502409	HE AT	CONT. 30 CONTO		LAWS

TEHACHAPI

LOCATION OF HOSPITALS

GENERAL HOSPITALSAN	FRANCISCO
EMERGENCY HOSPITALBA	KERSFIELD
WHITE MEMORIAL HOSPITALL	

40.10 0.52 210.18 103.95

			of 1000 Lbs. Back of Tender.										
Nominal Class	Official Class	Engine Numbers	Boiler Pressure	Bakersfield and Fresno via Goshen Jct., Bakersfield and Kerman via Armona	Famoso and Fresno, via Exeter		Bakersfield to Rosamond	Lancaster to Saugus	Saugus to Lancaster	Rosamond to Bakersfield	Los Angeles to Saugus	Saugus to Los Angeles	A FLAP SE
M-4 M-4	M-63 20/28 135-S M-63 20/28 126	1617 to 1713	190 190	4150 3950	3300 3150	4150 3950	580 580	750 740	680 670	680 670	730 730	820 820	1 11
M-8 M-6	M-63 21/28 159-S M-63 21/28 150-S	1721 to 1803	200	4850	3800	4850	700	900	820	820	930	1000	
M-9 M-11 M-11	M-63 21/28 150-S M-63 21/28 153-S M-63 22/28 153-S & 162-SF	1806 to 1822 1831 1832 to 1835	210 210 200	5100 5100 5300	4050 4050 4200	5100 5100 5300	760 780 780	970 1000 1000	890 910 910	890 910 910	990 990 990	1100 1100 1100	
Γ-23 Γ-23 Γ-28, 31	T-63 21/28 156-S T-63 21/28 163-SF	2301 to 2310	210	5050	4000	5050	730	940	850	850	930	1030	
Γ-28, 31 Γ-32	T-63 22/28 162-S T-69 23/28 174-S	2311 to 2362 2363 to 2370, 2372 to 2384	210 210	5550 5700	4400 4500	5550 5700	820 860	1050 1050	950 990	950 990	1050 1050	1200 1200	
P-1, 3, 5 P-4 P-6 P-10 P-10	P-77 22/28 141-S P-77 23/28-155/B 58-SF P-77 25/28 172-S P-73 25/30 181-SF P-73 25/30-183/B-63-SF	2400 to 2452, 2459, 2460	210 210 200 200	4600 5000 5650 6250	3600 3950 4450 4950	4600 5000 5650 6250	630 690 810 830	800 870 1000 1100	740 800 940 980	740 800 940 980	800 900 1000 1100	890 1100 1150 1250	
C-9, 10 C-9, 10 C-8 C-5 C-5	C-57 22/30 200-SF C-57 22/30 194-S C-57 22/30 192-S C-57 22/30 187-S C-57 22/30 185-S	2513 to 2599, 2698 to 2860	210	6100	4800	6100	900	1150	1050	1050	1200	1300	MAIN LINES
A-6 A-3	A-81 22/28-127/B-64-SF A-81 20/28 112-S	3000 to 3003 3025 to 3040, 3043 to 3071)	210	4400	3450	4400	600	750	690	690	700	800	SAN JOAQUIN DIVISION: End Western Division to Goshen Jct. C.1 End Western Division to Fresno. S. I Goshen Jct. to Saugus. S. Fresno to Famoso via Exeter. S. I
1-3	A-81 20/28-116/B-59-S	3025 to 3040, 3043 to 3071	210	3600	2850	3600	450	580	530	530	550	630	Goshen Jct. to Saugus
Mk-5, 6 Mk-5, 6	Mk-63 26/28 210-S Mk-63 26/28 231-SF	3241 to 3277	210	7800	6200	7800	1200	1500	1350	1350	1450	1600	Total main lines.
4k-7, 8, 9	Mk-63 29/30 247-S & 257-SF	3300 to 3324	176	8550	6750	8550	1300	1650	1500	1500	1650	1850	BRANCHES ArvinS. P. CoMagunden to Arvin
F-4, 5 F-5	F-63 29 1/32-306/B-61-SF F-63 29 1/32-306/B-62-SF	3668 to 3768	200	10,200	8050	10,200	1500	1950	1750	1750	2100	2300	Clovis. S. P. R. R. Fresno to Friant. Coalinga. S. P. R. R. Armona to Crum Fresno Interurban . F. I. Ry. Co. Barton to Hamm Barton to Belmor
AC-1, 2, 3	AC-57 23-23 441-SF	4000 to 4048	210	12,300	9750	12,300	1900	2450	2200	2200	2250	2450	the second secon
AC-4 AC-5	AC-63 24-24 475-SF AC-63 24-24 483-SF	4100 to 4125	235	16,000	12,700	16,000	2500	3200	2900	2900	3200	3500	Keeler C. P. Ry Benton to Keeler McKittrick S. P. R. R Bakersfield to Oli Minkler-Southern . A. T. & S. F Porterville to Du
Mt-1,3,4,5	Mt-73 28/30-246/B-60-SF	4300 to 4376	210	8350	6600	8350	1150	1500	1350	1350	1550	1750	Minkler-Southern A. T. & S. F. Porterville to Du Oil City S. P. R. Oil Junction to O Owenyo C. P. Ry. Mojave to Oweny Pernu S. P. Co. Pernu Jct. to Per
GS-1 GS-2	GS-73 27/30 262/B-104-SF GS-73 27/30 266/B-104-SF	4400 to 4415	250	9000	7050	9000	1200	1550	1400	1400	1600	1800	Richgrove S. P. R. R. Richgrove to Jov Riverdale S. P. R. R. Ingle to Goshen J. Stratford S. P. R. Rossi to Stratfor
3S-3	GS-80 26/32 267/B-105-SF	4416 to 4429	280	9200	7250	9200	1250	1600	1450	1450	1650	1850	Success. S. P. Co. Porterville (Olive Visalia. S. P. R. Goshen Jet. to Ex
SP-1 SP-2, 3	$\begin{array}{c} \text{SP-63} \ {}^{\frac{2}{8}}_{\frac{5}{8}}, {}^{\frac{1}{8}}_{\frac{1}{8}} \ {}^{\frac{2}{8}}_{\frac{1}{8}}, {}^{\frac{1}{8}}_{\frac{1}{8}} \ {}^{\frac{2}{8}}_{\frac{1}{8}}, {}^{\frac{1}{8}}_{\frac{1}{8}} \ {}^{\frac{2}{8}}_{\frac{1}{8}}, {}^{\frac{1}{8}}_{\frac{1}{8}}, {}^{\frac{1}{8}}_{\frac{1}8}, {}^{\frac{1}{8}}_{\frac{1}{8}}, {}^{\frac{1}{8}}_{\frac{1}{8}}, {}^{\frac{1}{8}$	5000 to 5048	225	12,000	9500	12,000	1800	2350	2100	2100	2450	2700	Total Branches
Allowance	for Empty and Underloaded C	ars Less than 40 Ms		6 3	6 3	6	3	3	3	3	3	3	Total San Jonquin Division.
on and	or Lampey and Onderloaded Co	More than 50 Ms		ő	0	3	0	0	0	0	0	0	A CONTRACTOR

These ratings include the total weight of train, exclusive of engine and tender, which the different class of locomotives will haul in each direction between the stations shown.

C. G. TANDY, Trainmaster, Fresno

A. H. HOFFMAN, Trainmaster—Road Forenant of Engines, Bakersfield DISCONTINUED OCT. 1, 1939

F. E. KALBAUGH, Asst. Trainmaster, Bakersfield TRANSFERRED

DISCONTINUED OCT. 1, 1939

P. E. TURNER, Asst. Chief Dispatcher,
J. S. FOCKLER, Asst. Chief Dispatcher.

P.D.ROBINSON, ASST. TRAINMASTER, FRESNO - APPOINTED OCT. 16, 1939 (DISCONTINUED JAN. 1, 1940 - REESTABLISED JUNE 16, 1940

K.K.SCHOMP, TRAINMASTER, MOJAVE-APPOINTED OCT. 1,1939
A.H. HOFFMAN, ROAD FOREMAN OF ENGINES, BAKERSFIELD - APPOINTED OCT. 1,1939

S. H. BRAY, Asst. Superintendent

E. F. WASEM, Chief Dispatcher,

