

**2019 Union Pacific South Coast Fleet Average- Form F-A-1 Summary**

(1) Line No.	(2) Count of Locomotives	Sum of WMTR MWHR	(3) CL (g/bhphr)	(4) Average Adj. to CL (g/bhphr)	(5) Average EL (g/bhphr)	(6) Average MWhr per Locomotive	(7) Total Weighted MWhr	EPA Tier*	% MW-hrs by Tier	% locos by Tier			
1	168	10,085	1.1	0.02	1.1	60.0	10,890	4	4.7%	3.2%			
2	24	11	1.3	0.03	1.3	0.4	14						
<b>Subtotal</b>	<b>192</b>	<b>10,096</b>					<b>10,904</b>						
3	6	34	2.1	0.15	2.0	5.7	67	3	16.6%	15.1%			
4	3	19	4.2	0.13	4.1	6.4	79						
5	33	174	4.6	0.11	4.5	5.3	783						
6	23	307	4.7	0.05	4.6	13.3	1,416						
7	296	17,669	4.9	0.15	4.8	59.7	83,982						
8	35	1,814	5.0	0.00	5.0	51.8	9,062						
9	2	17	5.1	0.08	5.0	8.5	85						
10	6	15	5.3	0.05	5.2	2.5	78						
11	114	3,380	5.4	0.05	5.3	29.6	18,100						
12	396	12,453	5.5	0.16	5.3	31.4	66,485						
<b>Subtotal</b>	<b>914</b>	<b>35,882</b>					<b>180,137</b>						
13	43	3,015	3.0	0.17	2.8	70.1	8,539				2	28.9%	25.4%
14	6	25	4.0	0.12	3.9	4.1	95						
15	31	162	4.6	0.13	4.5	5.2	722						
16	146	8,561	4.7	0.14	4.6	58.6	38,888						
17	12	116	4.8	0.11	4.7	9.7	546						
18	8	60	4.9	0.11	4.8	7.5	291						
19	60	774	5.0	0.09	4.9	12.9	3,710						
20	1	3	5.1	0.00	5.1	3.0	15						
21	1	9	5.2	0.16	5.0	8.5	43						
22	29	138	5.3	0.12	5.2	4.8	715						
23	130	3,934	5.4	0.16	5.2	30.3	20,614						
24	1,068	45,456	5.5	0.14	5.4	42.6	243,330						
25	6	45	7.9	0.00	7.9	7.5	356						
26	1	1	8.0	0.00	8.0	1.2	10						
27	3	70	9.5	0.16	9.3	23.3	654						
<b>Subtotal</b>	<b>1,545</b>	<b>62,369</b>					<b>318,527</b>						
28	1	6	5.4	0.20	5.2	5.7	30	1	34.9%	37.3%			
27	8	30	5.5	0.22	5.3	3.7	158						
28	1	0	5.7	0.00	5.7	0.0	0						
29	61	346	6.0	0.14	5.9	5.7	2,031						
30	112	2,462	6.5	0.20	6.3	22.0	15,504						
31	10	99	6.6	0.08	6.5	9.9	646						
32	30	194	6.7	0.07	6.6	6.5	1,287						
33	10	52	6.9	0.21	6.7	5.2	348						
34	1	6	7.0	0.20	6.8	5.7	39						
35	3	20	7.1	0.00	7.1	6.8	145						
36	1	2	7.2	0.20	7.0	2.0	14						
37	143	3,377	7.3	0.21	7.1	23.6	23,940						
38	1,761	63,418	7.4	0.20	7.2	36.0	456,666						
39	8	39	7.6	0.26	7.3	4.9	288						
40	3	0	8.4	0.24	8.2	0.0	0						
41	5	42	8.6	0.05	8.5	8.4	359						
42	98	4,989	9.0	0.27	8.7	50.9	43,564						
43	11	168	9.5	0.20	9.3	15.3	1,561						
<b>Subtotal</b>	<b>2,267</b>	<b>75,251</b>					<b>546,579</b>						
44	1	11	5.3	0.00	5.3	10.5	56				0	14.7%	18.7%
45	9	62	6.7	0.04	6.7	6.9	414						
46	3	26	7.4	0.25	7.2	8.6	184						
47	3	14	7.5	0.16	7.3	4.7	104						
48	48	1,234	7.8	0.23	7.6	25.7	9,325						
49	53	2,633	7.9	0.27	7.6	49.7	19,749						
50	399	9,518	8.0	0.23	7.8	23.9	73,816						
51	11	46	8.6	0.07	8.5	4.2	392						
52	4	20	8.7	0.29	8.4	4.9	165						
53	311	11,466	9.0	0.25	8.8	36.9	100,283						
54	1	2	9.3	0.00	9.3	2.3	21						
55	259	5,693	9.5	0.26	9.2	22.0	52,455						
56	2	36	10.9	0.00	10.9	17.9	390						
57	15	578	11.8	0.28	11.5	38.5	6,623						
58	2	5	13.0	0.20	12.8	2.5	65						
59	5	209	13.1	0.00	13.1	41.8	2,736						
60	9	233	14.0	0.28	13.7	25.8	3,171						
<b>Subtotal</b>	<b>1,135</b>	<b>31,784</b>					<b>269,948</b>						
61	2	25	5.0	0.00	5	12.6	125	N	0.2%	0.3%			
62	1	105	5.3	0.00	5	105.4	559						
63	3	25	6.7	0.00	7	8.3	168						
64	2	10	8.6	0.00	9	4.8	82						
65	4	160	13.0	0.59	12	39.9	1,908						
66	5	3	13.1	0.00	13.1	0.7	45						
67	2	11	16.7	0.00	17	5.3	176						
<b>Subtotal</b>	<b>19</b>	<b>339</b>					<b>3,062</b>						
<b>Total</b>	<b>6,072</b>	<b>215,721</b>					<b>1,329,157</b>		<b>100.0%</b>	<b>100.0%</b>			
						<b>Fleet Average</b>	<b>6.16</b>						

\* EPA Tier categorization is based upon Certification of Conformity for engine families granted under 40 CFR Parts 92, 1033, including switch locomotives not certified under line-haul standards and use of ABT credits for some Tier 1 locomotives.