

Part 1 - Appendix 3C
Kansas City Power & Light Reports

Missouri 4 CSR 240-22.030 (7)(A)(7) Reporting Requirements
Load Analysis and Forecasting

For the net system load profiles, the utility shall provide plots for the summer peak day and the winter peak day.

The plots shall show each of the major class components of the net system load profile in a cumulative manner.

The plots shall be provided for the base year of the load forecast and for the fifth, tenth, and twentieth years of the forecast.

Compliance: See Plots 3C-1 through 3C-8 for base-case KCP&L forecast reports designed to comply with section (7)(A)(7) reporting requirements.

Linked Files:

7_Data_Calib.xls

MO_Fcst.ltm

KC_Fcst.ltm

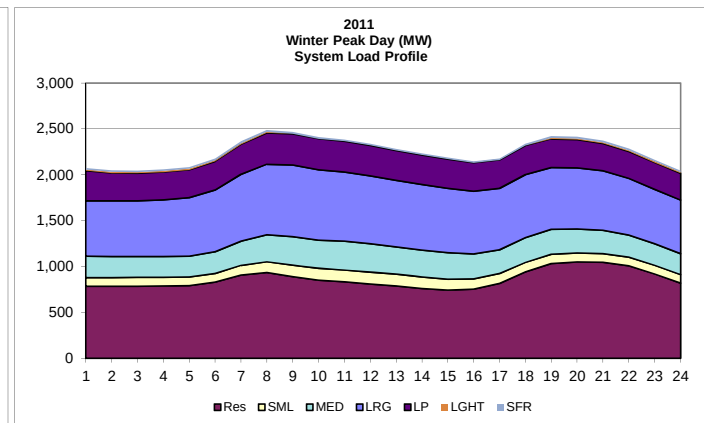
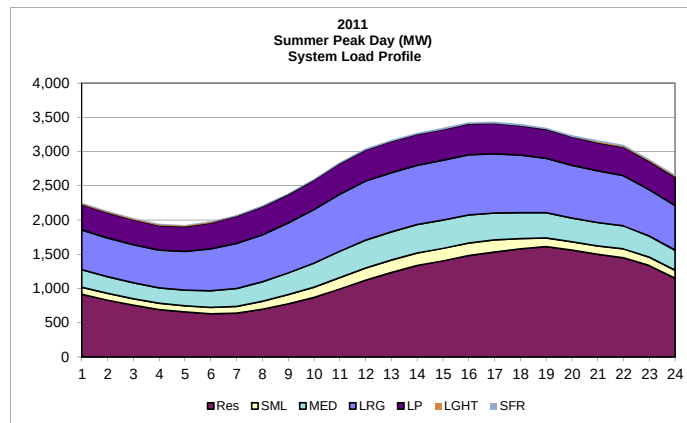
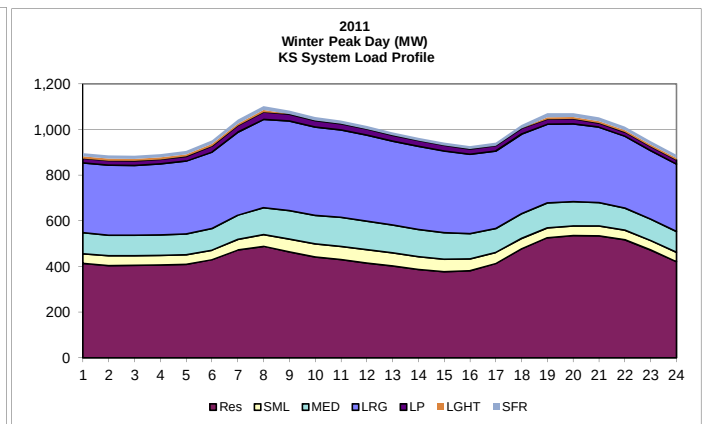
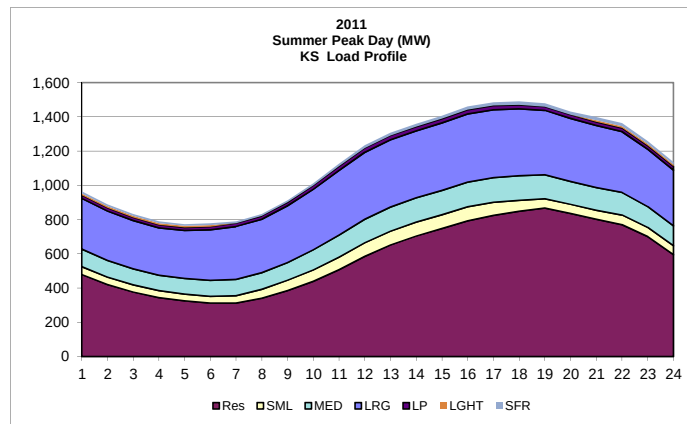
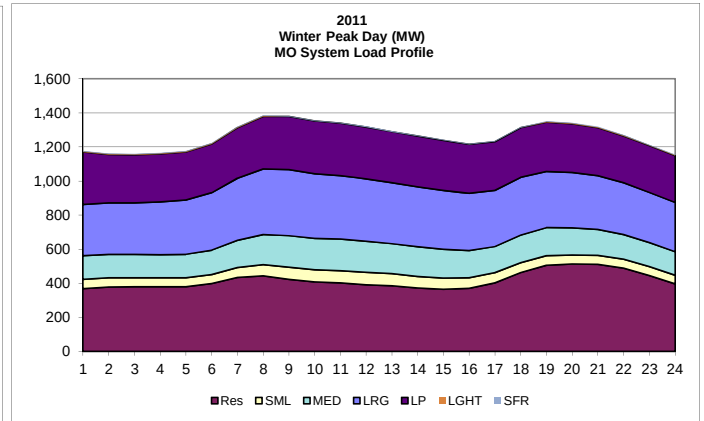
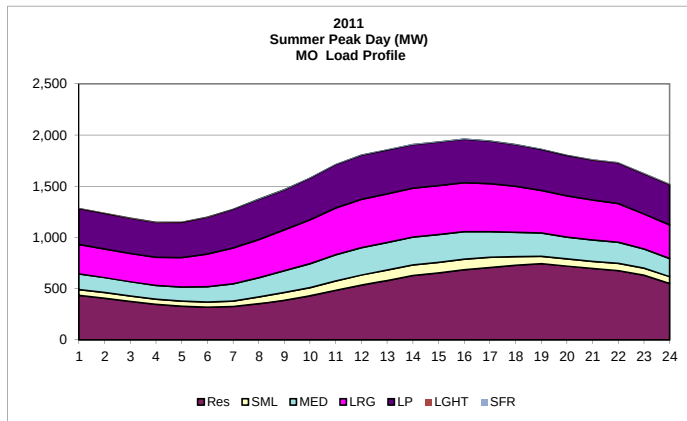
System.ltm

Plot 3C-1 KCP&L System Peak Day Loads by Class (Summer 2011)
Summer Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
8/1/11	1	434	58	153	285	352	3	4	1,290	479	46	103	296	19	9	12	965	914	105	256	581	371	13	16	2,255
8/1/11	2	408	56	145	279	348	3	4	1,243	420	44	97	288	19	9	11	889	828	100	242	568	367	13	15	2,132
8/1/11	3	377	54	138	275	344	3	3	1,194	377	43	93	282	19	9	10	833	753	96	231	557	363	13	14	2,027
8/1/11	4	347	51	134	274	340	3	3	1,154	344	41	90	277	18	9	10	789	691	92	224	551	358	13	13	1,943
8/1/11	5	330	50	138	287	343	3	3	1,155	325	40	90	280	18	9	10	773	656	90	228	568	361	13	13	1,928
8/1/11	6	319	51	149	320	358	3	4	1,204	312	41	93	296	18	9	10	778	631	91	242	616	376	13	14	1,982
8/1/11	7	328	52	167	350	378	-	4	1,279	313	42	96	309	19	-	11	789	640	94	263	659	397	-	15	2,068
8/1/11	8	356	63	189	372	392	-	4	1,377	341	51	97	312	20	-	11	832	697	114	287	684	412	-	15	2,209
8/1/11	9	389	75	212	400	391	-	4	1,471	385	60	103	332	20	-	12	913	774	135	315	731	412	-	16	2,384
8/1/11	10	428	83	235	428	407	-	5	1,586	439	67	117	354	22	-	13	1,012	867	149	352	782	429	-	18	2,598
8/1/11	11	485	91	256	456	423	-	6	1,717	507	73	130	377	24	-	15	1,126	992	165	386	833	447	-	20	2,843
8/1/11	12	535	99	267	472	431	-	6	1,810	585	79	137	391	25	-	16	1,234	1,120	178	404	863	456	-	22	3,044
8/1/11	13	581	102	270	474	429	-	6	1,861	651	81	141	394	25	-	17	1,308	1,232	182	410	867	454	-	24	3,169
8/1/11	14	630	102	273	476	426	-	6	1,914	704	81	142	391	25	-	18	1,360	1,334	183	415	867	451	-	24	3,274
8/1/11	15	655	102	272	477	425	-	7	1,938	748	80	143	393	25	-	19	1,407	1,402	182	415	871	449	-	25	3,345
8/1/11	16	685	104	267	480	425	-	7	1,967	793	81	144	398	25	-	19	1,461	1,478	185	411	878	450	-	26	3,428
8/1/11	17	708	98	251	468	415	-	7	1,948	825	77	144	396	25	-	20	1,486	1,533	175	395	864	440	-	26	3,434
8/1/11	18	731	82	238	450	405	-	7	1,913	849	63	143	391	24	-	20	1,490	1,580	145	381	841	429	-	27	3,403
8/1/11	19	744	72	227	417	401	-	7	1,868	867	55	139	377	21	-	21	1,480	1,611	128	366	793	422	-	27	3,348
8/1/11	20	722	69	215	402	393	-	6	1,807	835	53	133	370	21	-	20	1,432	1,557	122	348	772	414	-	26	3,239
8/1/11	21	698	68	211	390	389	3	6	1,766	802	53	132	363	21	10	19	1,398	1,500	121	343	753	410	13	24	3,164
8/1/11	22	678	72	205	378	396	3	6	1,737	771	56	131	356	21	10	19	1,364	1,448	128	336	734	417	13	24	3,101
8/1/11	23	632	68	187	343	392	4	5	1,632	701	54	121	334	21	10	17	1,258	1,333	122	309	678	413	14	22	2,890
8/1/11	24	552	66	177	327	393	4	5	1,525	595	52	117	325	22	10	15	1,135	1,147	119	294	652	415	14	19	2,660

Plot 3C-2 KCP&L System Peak Day Loads by Class (Winter 2011)
Winter Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
1/12/11	1	369	54	139	300	308	3	3	1,177	413	43	92	305	19	9	14	897	782	97	232	606	328	12	18	2,074
1/12/11	2	379	54	138	302	283	3	3	1,162	404	43	91	306	20	9	14	886	782	97	228	608	302	13	18	2,048
1/12/11	3	380	53	136	304	281	3	3	1,160	405	43	90	306	19	9	14	886	784	96	226	609	300	13	18	2,046
1/12/11	4	380	53	136	309	281	3	3	1,166	407	42	90	311	20	9	14	892	787	95	226	620	301	13	18	2,058
1/12/11	5	380	52	138	318	281	3	4	1,177	410	42	91	319	20	9	15	906	790	94	229	637	301	13	18	2,083
1/12/11	6	399	52	144	337	286	3	4	1,224	430	42	95	335	27	9	16	953	829	94	238	671	313	12	20	2,177
1/12/11	7	434	59	159	364	297	3	4	1,321	472	47	106	364	29	9	17	1,043	906	106	265	728	326	12	21	2,364
1/12/11	8	444	66	176	384	308	3	4	1,386	489	52	118	386	33	9	17	1,103	933	118	294	770	341	12	22	2,489
1/12/11	9	424	72	184	388	311	-	4	1,383	463	57	125	392	30	-	16	1,083	887	128	309	780	341	-	20	2,466
1/12/11	10	408	72	183	380	309	-	4	1,357	442	57	125	386	29	-	15	1,054	850	129	308	766	338	-	20	2,411
1/12/11	11	403	72	184	373	307	-	4	1,343	430	58	127	383	27	-	15	1,040	833	129	312	755	334	-	19	2,383
1/12/11	12	392	72	183	366	304	-	4	1,321	415	58	126	376	26	-	14	1,016	807	130	309	742	331	-	18	2,337
1/12/11	13	385	71	176	357	299	-	4	1,293	403	58	121	368	26	-	13	988	788	129	298	725	325	-	17	2,281
1/12/11	14	372	69	174	352	297	-	4	1,268	386	56	120	364	25	-	13	964	758	125	294	716	322	-	17	2,232
1/12/11	15	365	66	170	344	295	-	4	1,243	377	54	117	358	24	-	13	943	741	121	287	702	319	-	16	2,186
1/12/11	16	370	62	160	335	288	-	4	1,219	382	51	110	348	23	-	12	927	752	114	270	683	311	-	16	2,146
1/12/11	17	403	59	154	329	286	-	4	1,235	413	49	105	339	24	-	13	942	816	108	258	669	309	-	17	2,177
1/12/11	18	463	57	162	339	291	-	4	1,317	478	45	109	349	25	-	16	1,020	941	102	271	687	315	-	20	2,337
1/12/11	19	506	56	165	330	288	3	4	1,352	526	43	109	344	23	9	17	1,071	1,032	99	274	674	311	12	21	2,423
1/12/11	20	513	54	159	325	285	3	4	1,343	535	43	106	341	22	9	17	1,072	1,048	97	265	666	307	12	21	2,415
1/12/11	21	511	52	153	316	280	3	4	1,320	534	43	102	331	18	8	17	1,053	1,046	95	255	647	298	12	21	2,373
1/12/11	22	489	52	145	304	274	3	4	1,271	518	42	97	315	18	8	16	1,013	1,007	94	242	618	292	11	20	2,284
1/12/11	23	446	52	141	294	274	3	4	1,214	472	41	94	301	18	9	15	949	918	94	235	594	292	12	18	2,163
1/12/11	24	397	52	137	289	274	3	3	1,156	421	41	91	295	18	9	14	889	818	93	229	584	292	12	17	2,045

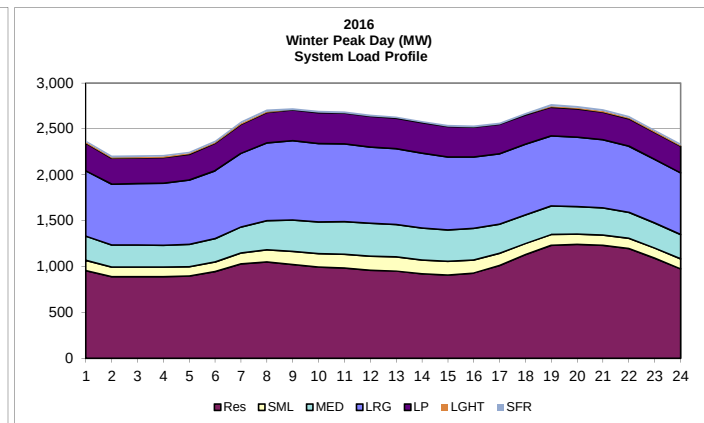
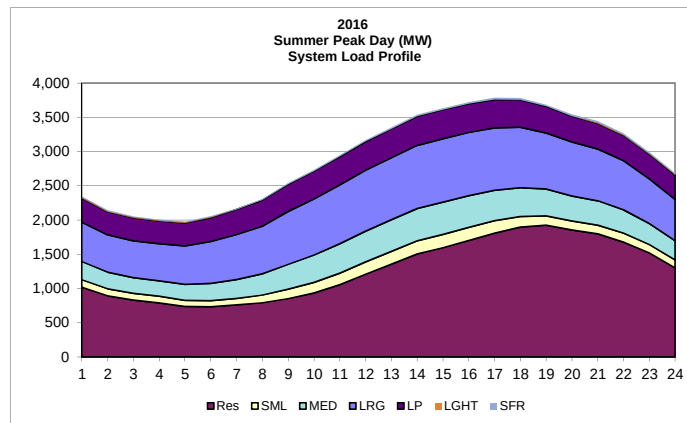
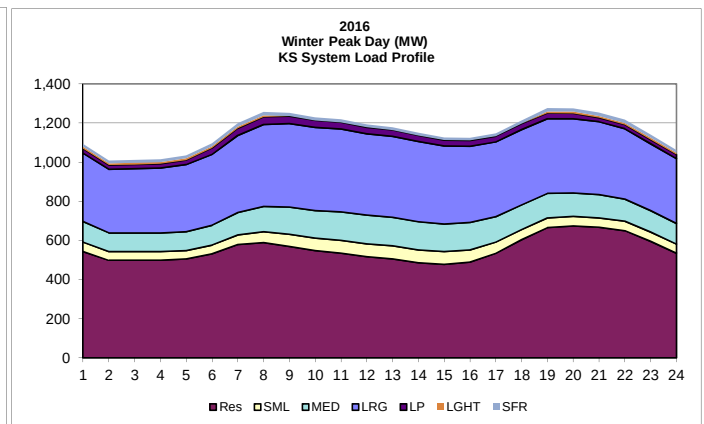
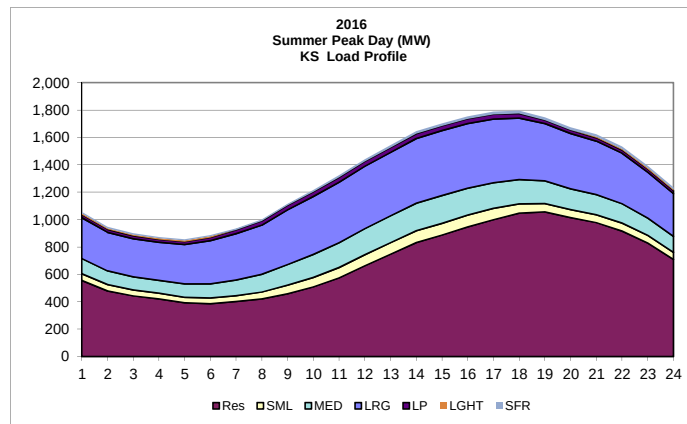
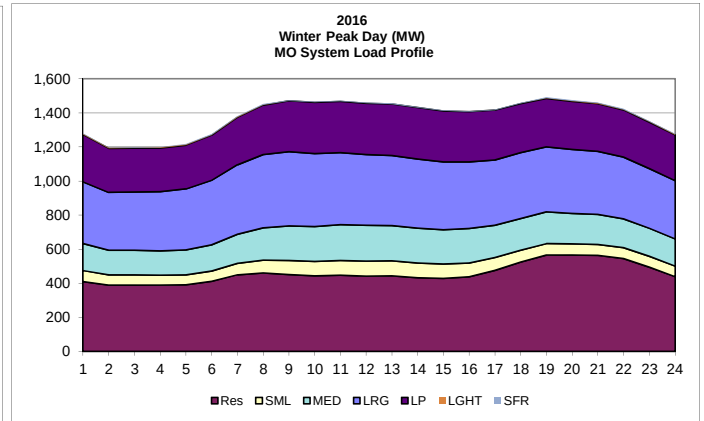
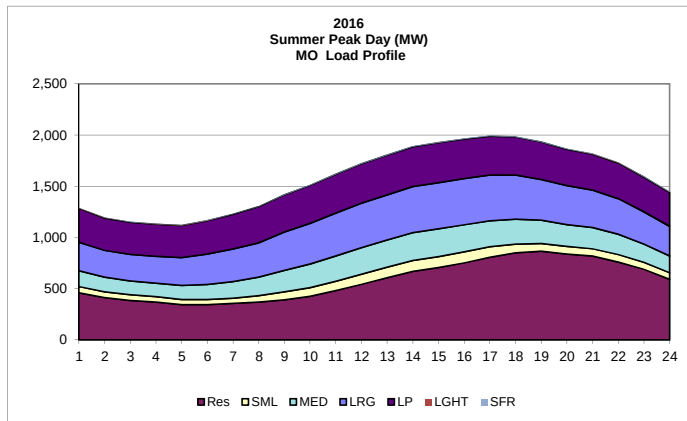


Plot 3C-3 KCP&L System Peak Day Loads by Class (Summer 2016)
Summer Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
7/21/16	1	460	61	156	276	330	3	4	1,291	556	49	110	298	23	8	13	1,057	1,016	110	266	574	353	11	17	2,348
7/21/16	2	414	57	142	262	315	3	4	1,196	479	46	100	281	21	8	11	948	893	103	243	543	336	11	15	2,143
7/21/16	3	386	54	136	259	312	3	4	1,154	443	44	96	278	21	8	11	900	829	98	232	537	334	11	14	2,054
7/21/16	4	370	52	134	260	312	3	4	1,134	420	42	94	278	21	8	10	873	790	94	228	539	332	11	14	2,007
7/21/16	5	343	51	137	272	313	3	4	1,122	391	41	97	288	20	8	10	856	735	92	234	560	333	11	14	1,978
7/21/16	6	344	50	147	297	326	3	4	1,170	386	41	104	314	23	8	10	887	730	92	251	612	349	11	14	2,057
7/21/16	7	357	51	162	318	339	-	4	1,230	403	41	115	339	27	-	11	935	760	92	276	657	365	-	15	2,165
7/21/16	8	370	61	181	335	352	-	4	1,304	420	51	129	359	30	-	11	1,001	791	112	311	694	382	-	16	2,305
7/21/16	9	393	76	210	375	363	-	5	1,421	458	63	151	400	33	-	12	1,117	851	139	360	774	396	-	17	2,538
7/21/16	10	426	84	231	397	372	-	5	1,514	508	70	168	422	34	-	14	1,216	934	154	398	819	405	-	19	2,730
7/21/16	11	481	92	248	417	378	-	5	1,622	574	75	182	442	35	-	15	1,323	1,055	167	430	859	413	-	21	2,945
7/21/16	12	543	100	258	435	384	-	6	1,725	662	81	190	455	36	-	17	1,441	1,206	181	448	890	419	-	23	3,166
7/21/16	13	607	103	265	441	387	-	6	1,810	747	84	196	463	35	-	18	1,543	1,354	187	460	904	422	-	24	3,353
7/21/16	14	670	106	271	450	389	-	6	1,893	832	86	202	472	35	-	19	1,645	1,502	192	473	922	424	-	25	3,538
7/21/16	15	708	107	271	451	388	-	6	1,931	887	86	202	474	35	-	19	1,702	1,595	192	473	925	423	-	26	3,634
7/21/16	16	753	107	265	452	385	-	6	1,968	946	86	197	471	35	-	20	1,754	1,699	193	461	923	420	-	26	3,722
7/21/16	17	807	102	253	447	380	-	6	1,996	999	82	187	465	34	-	20	1,788	1,806	185	440	912	414	-	27	3,784
7/21/16	18	850	87	242	432	370	-	6	1,987	1,046	69	178	449	33	-	21	1,795	1,896	156	419	881	403	-	27	3,782
7/21/16	19	866	76	228	398	363	-	6	1,937	1,056	60	166	418	26	-	20	1,747	1,922	137	395	816	389	-	26	3,684
7/21/16	20	840	73	212	383	353	-	6	1,867	1,015	58	153	405	25	-	20	1,673	1,854	130	365	787	378	-	26	3,541
7/21/16	21	819	71	207	365	350	3	6	1,821	978	57	148	390	23	8	19	1,623	1,797	128	356	756	373	11	24	3,444
7/21/16	22	761	73	198	349	347	3	6	1,735	916	59	141	369	23	8	18	1,534	1,677	131	339	717	370	11	24	3,269
7/21/16	23	690	68	178	315	338	3	5	1,597	829	55	127	335	23	8	17	1,393	1,519	123	305	650	361	11	22	2,990
7/21/16	24	591	64	164	292	330	3	5	1,449	709	52	117	311	22	8	14	1,234	1,300	116	281	603	353	11	19	2,683

Plot 3C-4 KCP&L System Peak Day Loads by Class (Winter 2016)
Winter Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
1/19/16	1	410	65	158	362	279	3	4	1,281	543	48	105	349	23	9	15	1,093	953	113	263	711	302	12	19	2,374
1/19/16	2	390	60	145	339	259	3	3	1,199	498	45	96	325	22	9	14	1,008	888	105	240	664	281	12	18	2,207
1/19/16	3	390	59	145	342	257	3	3	1,200	499	44	95	328	21	9	15	1,011	889	104	240	670	279	12	18	2,211
1/19/16	4	389	59	143	347	256	3	3	1,201	500	44	94	332	22	9	15	1,015	888	103	238	679	278	12	18	2,216
1/19/16	5	391	59	146	358	257	3	4	1,218	505	44	96	342	23	9	15	1,034	895	103	242	701	280	12	19	2,252
1/19/16	6	413	60	154	378	265	3	4	1,276	532	45	101	362	33	9	16	1,097	944	104	255	740	297	12	20	2,373
1/19/16	7	450	66	171	408	279	3	4	1,382	579	50	114	394	36	9	18	1,199	1,029	116	285	802	315	12	22	2,581
1/19/16	8	460	75	191	429	290	3	5	1,453	589	56	129	418	39	9	18	1,257	1,049	131	320	847	329	12	22	2,710
1/19/16	9	451	83	203	436	297	-	5	1,475	569	62	139	428	37	-	17	1,252	1,020	145	342	864	334	-	21	2,727
1/19/16	10	444	84	204	429	300	-	5	1,467	548	63	141	425	36	-	16	1,229	993	148	345	854	336	-	21	2,696
1/19/16	11	447	86	211	422	301	-	5	1,472	536	65	145	424	34	-	16	1,219	983	151	356	846	335	-	20	2,691
1/19/16	12	442	87	212	415	301	-	4	1,461	516	66	147	416	33	-	15	1,193	958	153	359	831	333	-	20	2,654
1/19/16	13	444	88	208	412	301	-	4	1,456	506	66	146	414	32	-	15	1,178	949	154	353	826	333	-	19	2,635
1/19/16	14	433	86	205	405	301	-	4	1,435	486	65	144	410	31	-	14	1,150	919	152	349	815	332	-	18	2,586
1/19/16	15	428	85	202	397	299	-	4	1,415	478	65	142	399	30	-	14	1,127	906	150	343	796	329	-	18	2,542
1/19/16	16	439	81	203	390	295	-	4	1,411	490	61	141	390	29	-	14	1,125	928	142	343	780	324	-	18	2,535
1/19/16	17	476	76	189	383	292	-	4	1,420	534	58	130	382	29	-	15	1,147	1,010	133	318	765	322	-	19	2,567
1/19/16	18	524	70	186	387	287	-	5	1,459	604	51	126	385	30	-	17	1,213	1,128	121	312	772	317	-	21	2,672
1/19/16	19	565	67	186	382	284	3	5	1,493	665	49	125	382	29	9	18	1,277	1,231	117	311	764	313	12	23	2,769
1/19/16	20	566	65	179	377	281	3	5	1,475	674	48	121	378	28	9	18	1,276	1,240	113	299	755	309	12	22	2,751
1/19/16	21	563	64	176	371	279	3	5	1,462	667	48	119	372	21	9	18	1,254	1,230	113	295	743	300	12	22	2,715
1/19/16	22	545	64	169	363	276	3	4	1,425	650	48	113	359	21	9	17	1,217	1,195	113	282	722	297	12	22	2,642
1/19/16	23	494	64	165	351	272	3	4	1,352	596	47	110	342	21	9	16	1,140	1,090	111	274	693	293	12	20	2,492
1/19/16	24	439	62	159	342	269	3	4	1,278	535	46	106	331	21	9	15	1,063	974	108	265	672	290	12	19	2,341

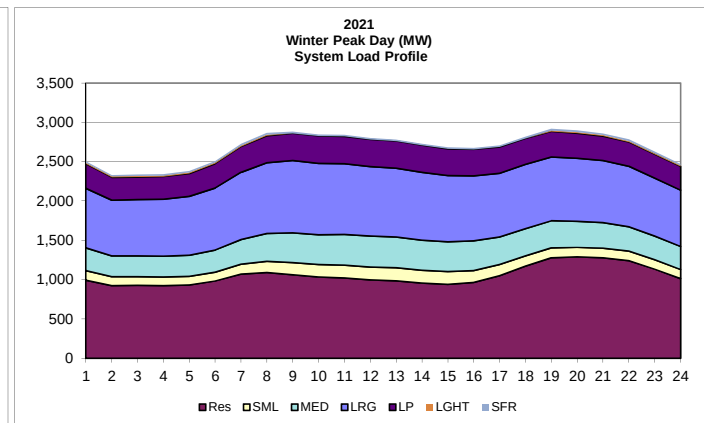
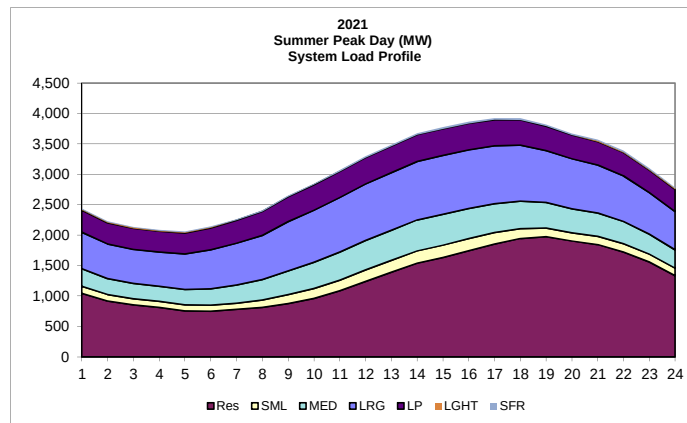
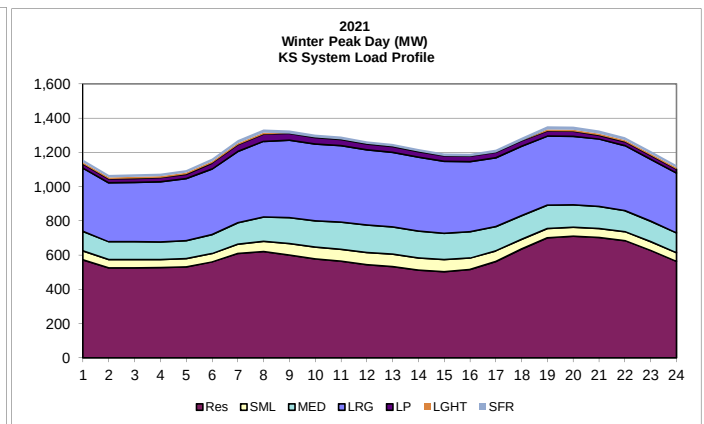
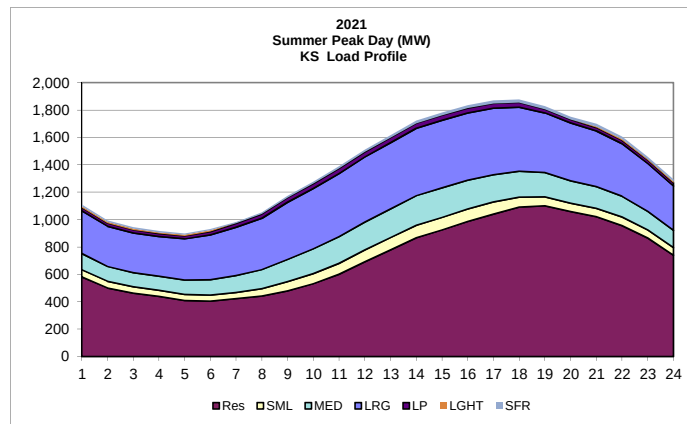
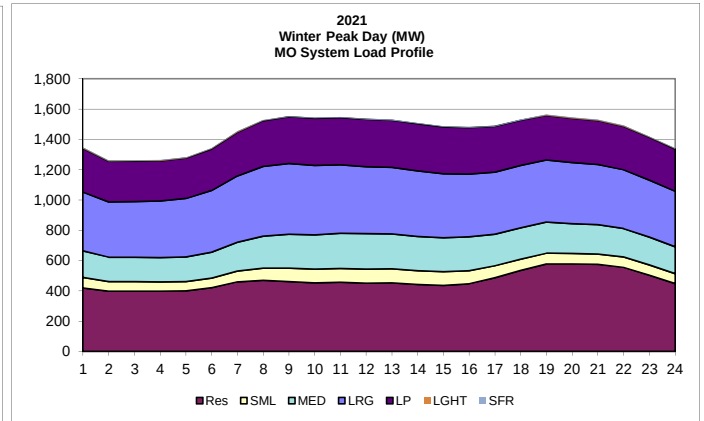
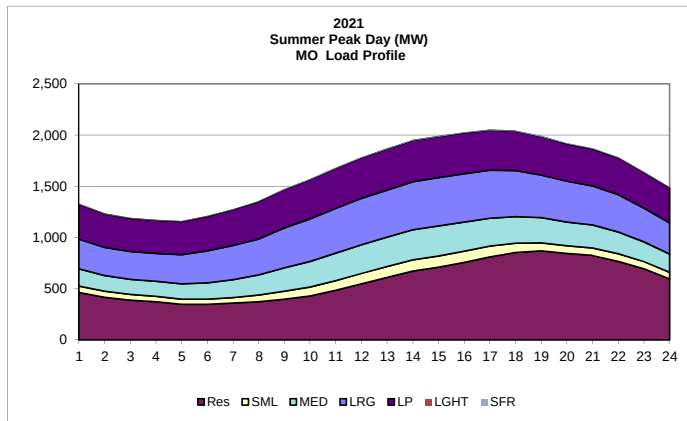


Plot 3C-5 KCP&L System Peak Day Loads by Class (Summer 2021)
Summer Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
7/21/21	1	463	63	169	289	341	3	5	1,332	581	53	119	311	23	9	14	1,110	1,044	115	288	600	364	12	18	2,442
7/21/21	2	417	59	155	274	325	3	4	1,235	501	49	108	294	22	8	12	994	918	107	262	568	347	11	16	2,230
7/21/21	3	389	56	148	271	322	3	4	1,193	463	47	103	290	22	8	12	944	853	103	251	561	344	11	15	2,137
7/21/21	4	373	54	145	273	321	3	4	1,172	439	45	101	290	21	8	11	917	812	99	246	563	343	11	15	2,089
7/21/21	5	347	52	149	284	323	3	4	1,161	410	44	104	301	21	8	11	899	756	96	253	585	344	11	15	2,061
7/21/21	6	347	52	159	311	336	3	4	1,212	404	44	112	328	24	8	11	932	751	96	271	639	360	11	15	2,144
7/21/21	7	361	53	176	333	349	-	4	1,276	422	44	123	354	28	-	12	984	783	97	299	687	377	-	16	2,259
7/21/21	8	374	64	197	351	363	-	4	1,353	441	54	139	375	31	-	12	1,053	815	118	336	726	394	-	17	2,406
7/21/21	9	397	79	228	392	374	-	5	1,474	480	67	162	417	34	-	13	1,174	877	146	390	809	408	-	18	2,648
7/21/21	10	430	87	250	415	383	-	5	1,570	532	74	180	441	35	-	15	1,277	962	161	430	856	418	-	20	2,847
7/21/21	11	485	94	269	436	390	-	6	1,680	600	80	195	461	36	-	16	1,389	1,085	174	464	897	426	-	22	3,068
7/21/21	12	547	102	279	454	395	-	6	1,784	691	86	204	475	37	-	18	1,511	1,239	189	483	929	432	-	24	3,295
7/21/21	13	611	106	286	461	399	-	6	1,870	779	89	210	483	37	-	19	1,617	1,390	195	496	944	435	-	26	3,486
7/21/21	14	674	109	294	470	401	-	7	1,953	867	91	216	492	36	-	20	1,722	1,541	200	509	961	437	-	27	3,676
7/21/21	15	711	109	293	471	400	-	7	1,992	924	91	216	494	36	-	20	1,781	1,635	200	510	965	436	-	27	3,773
7/21/21	16	757	110	286	472	397	-	7	2,027	985	91	210	491	36	-	21	1,835	1,742	201	496	962	433	-	28	3,862
7/21/21	17	812	105	274	466	391	-	7	2,054	1,041	87	200	484	36	-	22	1,869	1,852	192	474	950	427	-	28	3,924
7/21/21	18	855	89	261	451	382	-	7	2,044	1,091	73	190	468	34	-	22	1,877	1,946	162	451	918	416	-	29	3,921
7/21/21	19	871	78	247	415	374	-	7	1,992	1,101	64	178	436	27	-	22	1,827	1,972	142	425	851	401	-	28	3,819
7/21/21	20	845	75	230	400	364	-	6	1,920	1,059	61	163	422	25	-	21	1,752	1,904	136	393	821	390	-	27	3,672
7/21/21	21	825	73	225	382	360	3	6	1,873	1,021	60	159	407	24	9	20	1,700	1,846	133	384	788	384	11	26	3,573
7/21/21	22	767	75	214	364	358	3	6	1,785	956	62	151	384	24	9	20	1,606	1,723	137	365	748	382	11	26	3,392
7/21/21	23	695	70	193	329	348	3	6	1,643	865	59	136	349	24	9	18	1,459	1,560	129	329	678	372	11	23	3,102
7/21/21	24	595	66	178	305	340	3	5	1,492	739	55	126	325	23	8	15	1,292	1,334	122	304	629	364	11	20	2,784

Plot 3C-6 KCP&L System Peak Day Loads by Class (Winter 2021)
Winter Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
1/19/21	1	420	69	176	388	288	3	4	1,347	571	52	115	369	24	10	16	1,158	991	121	290	757	312	13	20	2,505
1/19/21	2	399	64	161	364	268	3	4	1,261	525	49	104	344	23	9	15	1,069	923	112	265	708	291	12	19	2,331
1/19/21	3	399	63	161	368	266	3	4	1,263	526	48	104	347	23	9	16	1,072	925	111	265	715	289	12	19	2,335
1/19/21	4	397	63	160	373	265	3	4	1,264	526	48	103	351	23	9	16	1,076	923	111	263	725	288	12	19	2,341
1/19/21	5	399	62	163	385	266	3	4	1,283	532	48	105	363	25	9	16	1,097	931	110	268	748	291	12	20	2,380
1/19/21	6	422	64	171	407	274	3	4	1,344	560	49	111	383	35	9	17	1,163	982	112	282	789	309	12	22	2,507
1/19/21	7	460	71	190	438	289	3	4	1,455	610	54	125	417	38	9	19	1,272	1,070	125	315	855	327	12	23	2,727
1/19/21	8	470	80	212	460	300	3	5	1,530	620	61	141	442	41	9	19	1,334	1,090	141	353	902	342	12	24	2,864
1/19/21	9	461	88	225	467	307	-	5	1,553	599	67	152	452	39	-	18	1,328	1,060	155	377	919	347	-	23	2,881
1/19/21	10	454	89	226	459	311	-	5	1,544	577	69	154	449	38	-	17	1,303	1,031	158	380	907	348	-	22	2,847
1/19/21	11	457	91	233	451	312	-	5	1,549	564	70	159	447	36	-	17	1,292	1,021	162	392	898	348	-	21	2,841
1/19/21	12	451	93	234	443	311	-	5	1,537	544	71	161	439	34	-	16	1,265	995	164	395	881	346	-	21	2,802
1/19/21	13	453	93	230	439	311	-	5	1,531	533	72	159	437	34	-	16	1,249	985	165	389	875	345	-	20	2,780
1/19/21	14	442	92	227	432	312	-	5	1,508	512	71	157	431	33	-	15	1,220	954	163	384	863	344	-	20	2,728
1/19/21	15	437	91	223	422	310	-	4	1,487	503	70	154	420	32	-	15	1,194	940	161	377	842	341	-	19	2,681
1/19/21	16	448	86	224	415	305	-	4	1,482	516	67	153	411	31	-	15	1,192	963	152	378	826	336	-	19	2,674
1/19/21	17	486	80	209	408	302	-	4	1,490	562	62	141	402	31	-	16	1,215	1,048	142	350	811	333	-	20	2,705
1/19/21	18	535	74	207	413	297	-	5	1,531	636	56	138	406	32	-	18	1,285	1,171	130	344	819	329	-	23	2,816
1/19/21	19	577	72	207	409	294	3	5	1,566	701	54	137	403	30	9	19	1,353	1,278	125	344	812	324	12	24	2,918
1/19/21	20	578	69	198	403	291	3	5	1,546	710	52	132	399	30	9	19	1,351	1,288	121	330	802	321	12	24	2,897
1/19/21	21	574	68	195	397	289	3	5	1,532	702	53	130	393	22	9	19	1,328	1,277	121	325	790	311	12	24	2,859
1/19/21	22	555	68	187	389	286	3	5	1,493	685	52	123	380	22	9	18	1,290	1,240	121	310	768	308	12	23	2,783
1/19/21	23	504	68	183	376	282	3	4	1,420	627	52	120	361	22	9	17	1,208	1,131	119	303	738	304	12	21	2,628
1/19/21	24	448	66	177	367	278	3	4	1,343	564	50	115	350	22	9	16	1,126	1,012	116	293	716	300	12	20	2,470



Plot 3C-7 KCP&L System Peak Day Loads by Class (Summer 2031)
Summer Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
7/21/31	1	474	65	200	311	355	3	4	1,413	634	57	135	334	25	10	15	1,211	1,109	122	335	646	380	13	19	2,623
7/21/31	2	443	63	189	305	349	3	4	1,355	565	55	127	326	24	9	13	1,121	1,008	118	316	631	374	12	18	2,476
7/21/31	3	414	60	180	302	347	3	4	1,310	523	53	122	322	24	9	13	1,065	937	113	302	624	371	12	17	2,375
7/21/31	4	396	58	177	304	346	3	4	1,288	496	51	119	322	23	9	12	1,034	893	109	297	626	369	12	16	2,322
7/21/31	5	369	56	181	317	348	3	4	1,277	464	50	123	334	23	9	12	1,015	832	106	304	651	371	12	16	2,292
7/21/31	6	369	56	195	346	361	3	4	1,335	458	50	132	364	26	9	12	1,052	828	106	327	711	387	12	16	2,387
7/21/31	7	385	57	215	371	376	-	4	1,408	480	50	146	394	30	-	12	1,113	864	108	361	765	406	-	17	2,521
7/21/31	8	399	69	241	392	390	-	5	1,496	501	61	165	417	34	-	13	1,192	900	130	406	809	425	-	18	2,688
7/21/31	9	423	84	278	437	402	-	5	1,629	544	76	192	463	37	-	15	1,326	966	160	470	900	440	-	20	2,956
7/21/31	10	457	93	305	462	412	-	6	1,734	601	84	212	489	38	-	16	1,440	1,058	176	517	951	450	-	22	3,175
7/21/31	11	516	100	327	485	420	-	6	1,853	677	90	229	511	40	-	18	1,565	1,193	191	556	995	459	-	24	3,417
7/21/31	12	581	109	339	504	425	-	6	1,964	778	97	239	526	40	-	20	1,701	1,359	206	579	1,029	465	-	26	3,664
7/21/31	13	648	113	347	511	429	-	7	2,054	875	100	246	535	40	-	21	1,817	1,523	213	593	1,046	469	-	28	3,871
7/21/31	14	713	115	356	521	431	-	7	2,143	973	102	253	544	39	-	22	1,934	1,686	218	608	1,065	471	-	29	4,077
7/21/31	15	753	116	355	522	430	-	7	2,183	1,036	102	253	546	39	-	23	1,998	1,789	218	608	1,068	469	-	30	4,181
7/21/31	16	801	116	346	522	426	-	7	2,218	1,104	102	246	543	39	-	23	2,057	1,905	218	591	1,065	465	-	30	4,276
7/21/31	17	859	111	330	516	421	-	7	2,244	1,167	98	233	535	39	-	24	2,095	2,026	208	564	1,051	459	-	31	4,339
7/21/31	18	906	94	315	499	410	-	7	2,231	1,224	82	221	517	37	-	24	2,105	2,130	176	537	1,016	447	-	32	4,336
7/21/31	19	923	83	298	459	402	-	7	2,173	1,237	72	208	482	29	-	24	2,052	2,161	155	506	941	431	-	31	4,225
7/21/31	20	896	79	279	443	392	-	7	2,097	1,191	69	192	467	28	-	23	1,969	2,087	148	471	910	420	-	30	4,066
7/21/31	21	875	78	273	423	388	3	6	2,046	1,149	68	187	450	26	9	22	1,912	2,024	146	460	874	414	12	29	3,957
7/21/31	22	813	79	260	404	385	3	6	1,950	1,076	70	178	426	26	9	22	1,807	1,890	149	437	829	411	12	28	3,757
7/21/31	23	737	75	234	365	375	3	6	1,794	973	66	160	387	26	9	19	1,640	1,710	141	395	752	401	12	25	3,435
7/21/31	24	631	71	216	339	366	3	5	1,631	831	62	148	360	25	9	17	1,453	1,462	133	364	698	392	12	22	3,084

Plot 3C-8 KCP&L System Peak Day Loads by Class (Winter 2031)
Winter Peak Day (MW)

Date	Hr	Missouri								Kansas								System							
		Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total	Res	SML	MED	LRG	LP	LGHT	SFR	Total
1/19/31	1	432	74	212	431	297	3	4	1,453	615	59	133	400	26	10	18	1,260	1,047	132	345	831	323	13	22	2,714
1/19/31	2	430	72	204	425	291	3	4	1,430	594	57	127	392	25	10	18	1,223	1,024	129	332	818	316	13	21	2,653
1/19/31	3	431	71	205	431	289	3	4	1,433	595	57	127	396	25	10	18	1,227	1,025	128	331	827	314	13	21	2,659
1/19/31	4	429	71	203	437	287	3	4	1,435	595	56	126	401	26	10	18	1,232	1,024	127	329	838	313	13	22	2,667
1/19/31	5	431	71	207	451	289	3	4	1,456	601	56	128	414	28	10	18	1,255	1,032	127	336	865	316	13	22	2,711
1/19/31	6	456	72	218	475	297	3	4	1,525	633	57	135	437	39	10	19	1,330	1,089	129	353	912	337	13	23	2,855
1/19/31	7	497	80	242	511	313	3	4	1,650	690	63	152	475	44	10	20	1,454	1,187	143	394	986	357	13	24	3,104
1/19/31	8	507	91	270	536	326	3	4	1,737	702	71	172	504	47	10	21	1,527	1,210	162	441	1,040	373	13	25	3,264
1/19/31	9	498	100	285	543	334	-	4	1,764	679	79	185	514	45	-	21	1,522	1,176	179	470	1,057	378	-	25	3,286
1/19/31	10	490	101	287	532	337	-	4	1,751	654	81	187	510	43	-	20	1,494	1,144	182	474	1,042	380	-	24	3,245
1/19/31	11	493	103	295	522	338	-	4	1,756	639	82	193	507	40	-	19	1,481	1,132	186	488	1,029	379	-	24	3,237
1/19/31	12	486	105	296	511	338	-	4	1,741	617	84	196	497	39	-	19	1,451	1,103	189	492	1,008	377	-	23	3,191
1/19/31	13	488	105	291	506	338	-	4	1,733	604	84	193	494	38	-	18	1,432	1,092	190	484	1,000	376	-	22	3,165
1/19/31	14	476	104	286	497	338	-	4	1,706	581	83	191	488	37	-	18	1,398	1,057	187	477	985	375	-	22	3,104
1/19/31	15	471	102	281	486	336	-	4	1,681	571	82	188	474	36	-	17	1,368	1,042	185	469	961	372	-	21	3,049
1/19/31	16	483	96	284	477	331	-	4	1,675	585	78	187	464	34	-	17	1,365	1,068	174	470	941	365	-	21	3,040
1/19/31	17	524	90	264	470	328	-	4	1,681	638	73	172	455	35	-	18	1,390	1,162	163	437	925	363	-	22	3,072
1/19/31	18	577	84	262	477	323	-	5	1,728	721	66	168	460	36	-	20	1,469	1,298	150	430	937	358	-	24	3,197
1/19/31	19	622	81	263	474	319	3	5	1,767	795	63	167	458	34	10	21	1,547	1,417	144	429	932	353	13	26	3,314
1/19/31	20	623	78	251	467	316	3	5	1,743	806	61	160	453	34	10	21	1,545	1,428	139	412	920	349	13	26	3,288
1/19/31	21	619	77	247	461	314	3	5	1,726	797	62	158	446	25	10	21	1,518	1,416	139	405	907	338	13	25	3,243
1/19/31	22	598	77	238	452	310	3	4	1,683	777	62	150	431	25	10	20	1,474	1,376	139	387	883	335	13	24	3,158
1/19/31	23	544	77	232	439	306	3	4	1,604	711	61	146	411	25	10	19	1,382	1,255	137	378	850	331	13	23	2,986
1/19/31	24	484	75	226	428	302	3	4	1,521	639	59	141	398	25	10	17	1,289	1,123	134	366	826	327	13	21	2,809

