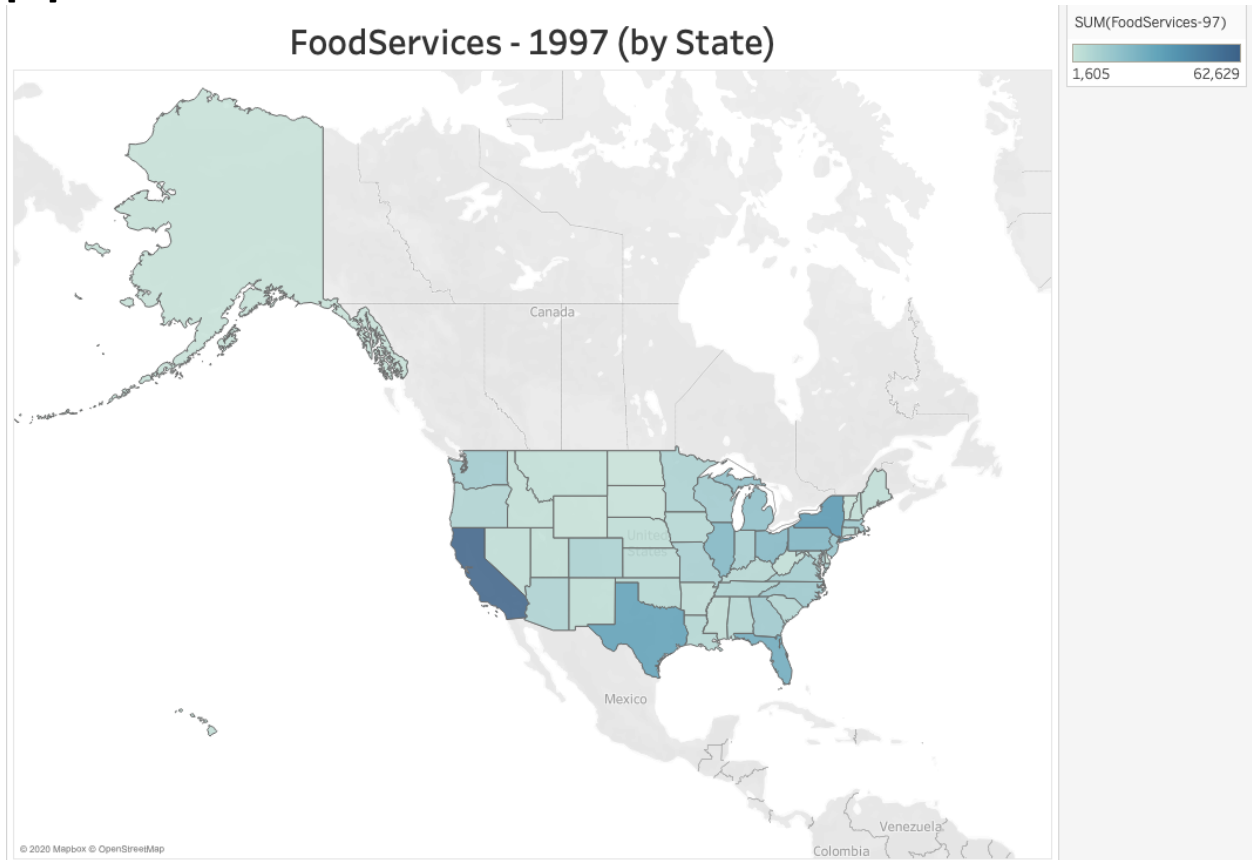
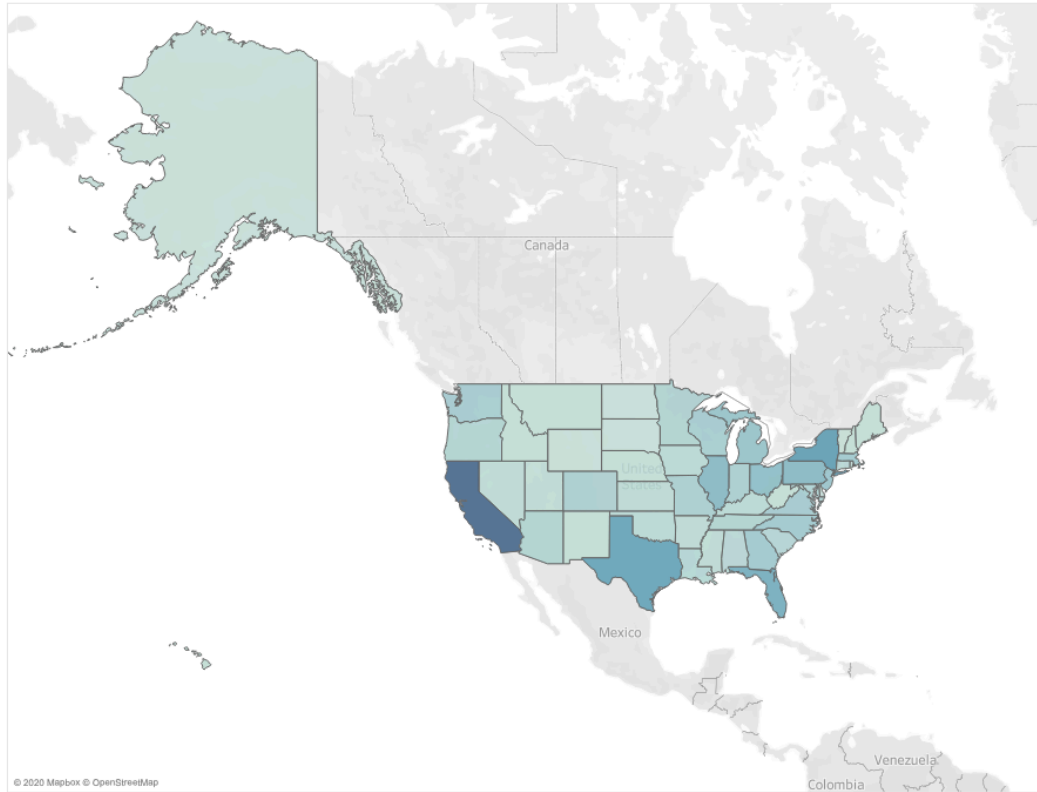


DSC 465  
HW2  
Ximan Liu

[1a]

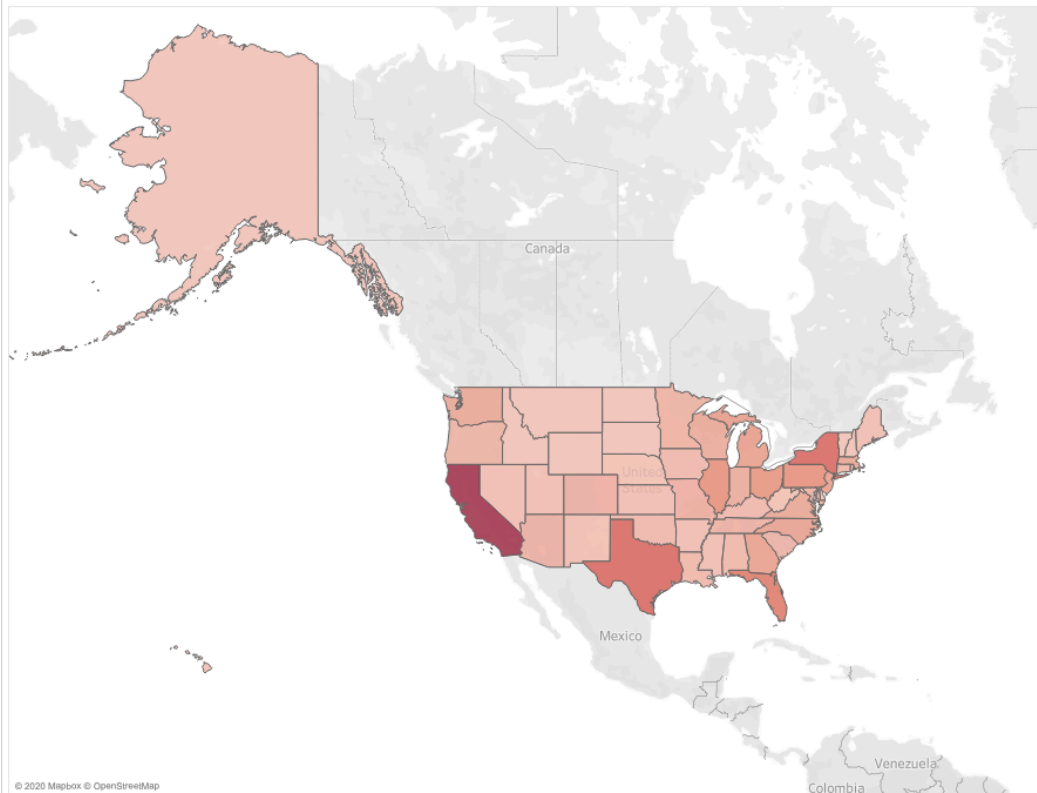


## FoodServices - 2002 (by State)



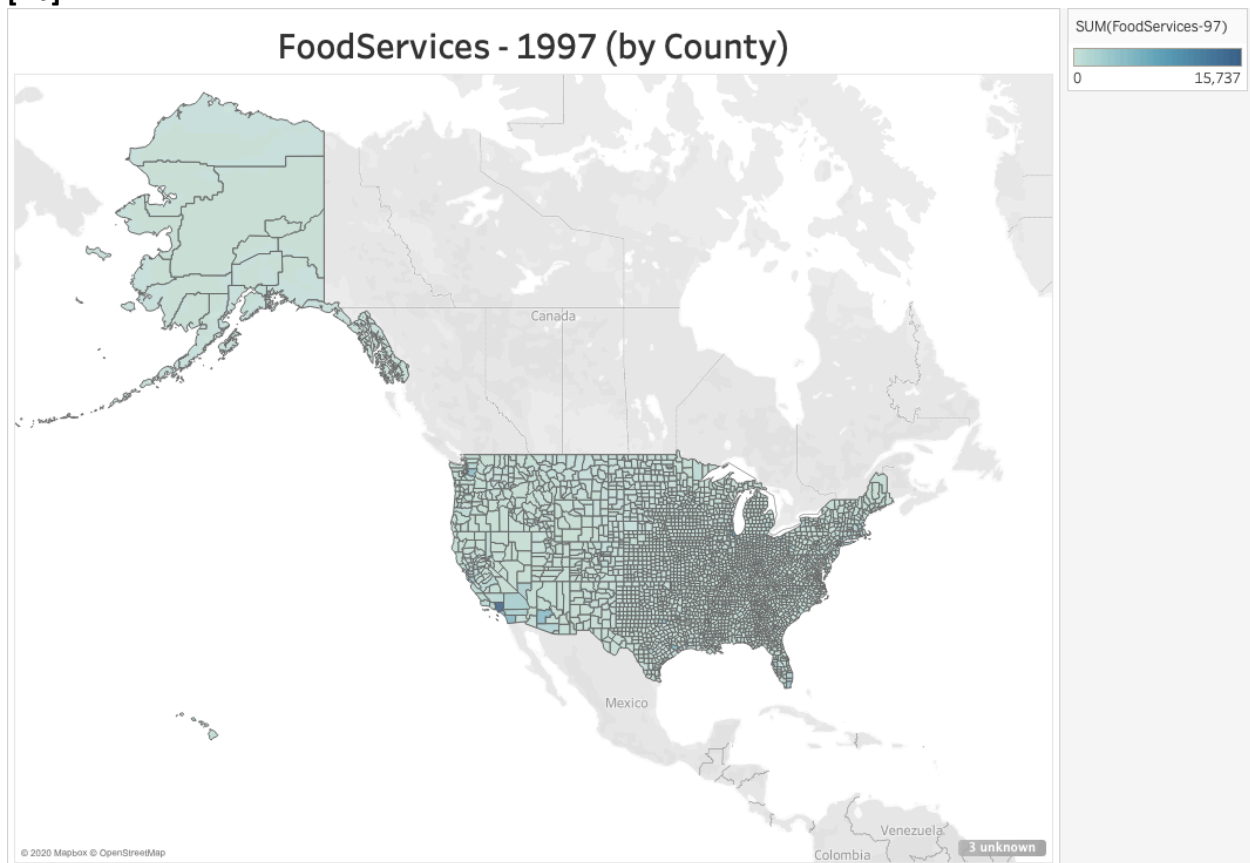
SUM(FoodServices-20...  
1,576 66,568

## FoodServices - 2007 (by State)

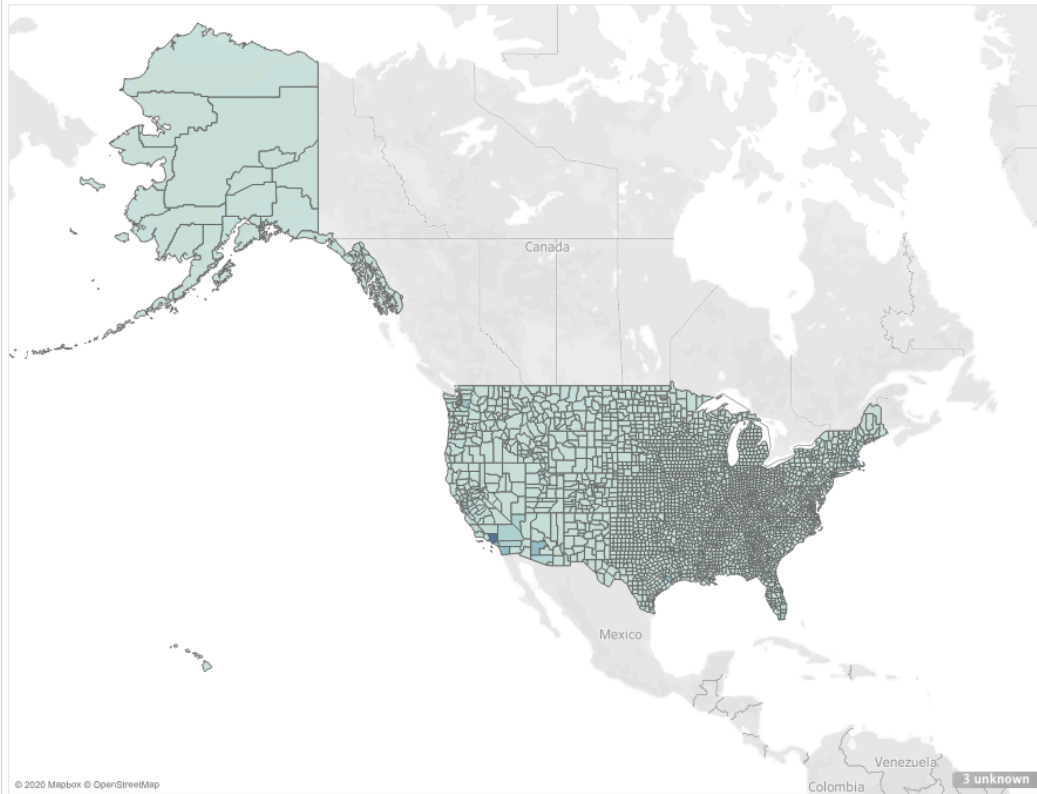


SUM(FoodServices-20...  
1,768 75,989

[1b]



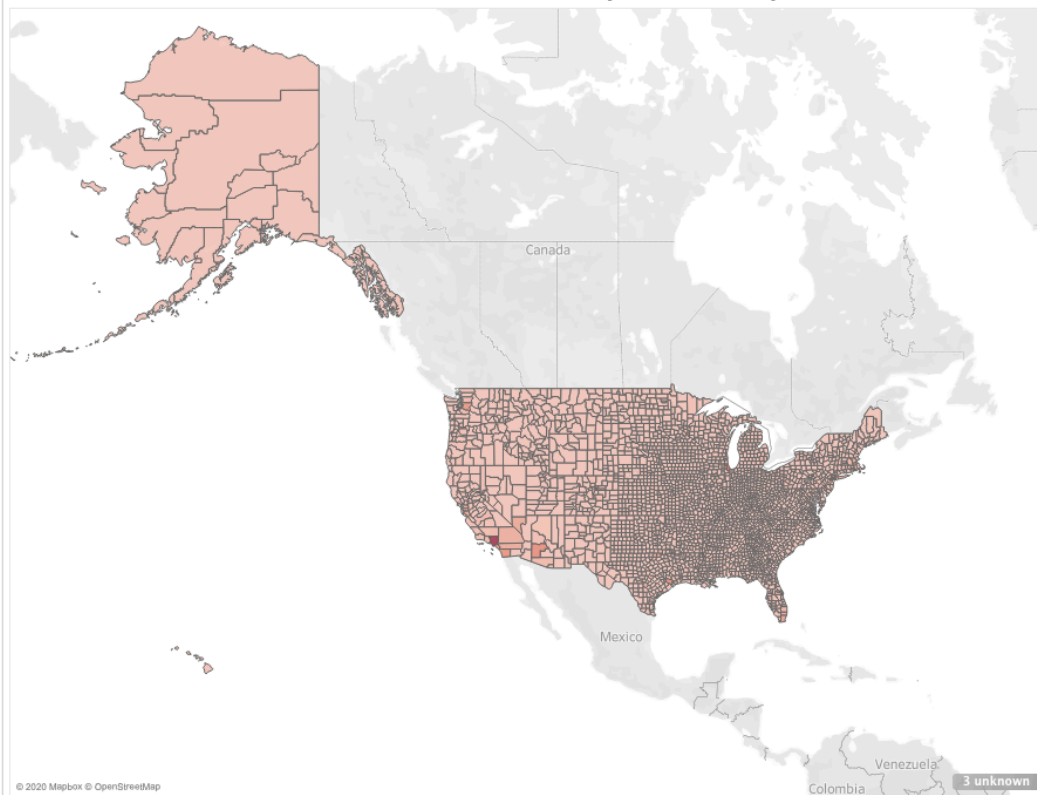
## FoodServices - 2002 (by County)



SUM(FoodServices-2002)

0 17,074

## FoodServices - 2007 (by County)

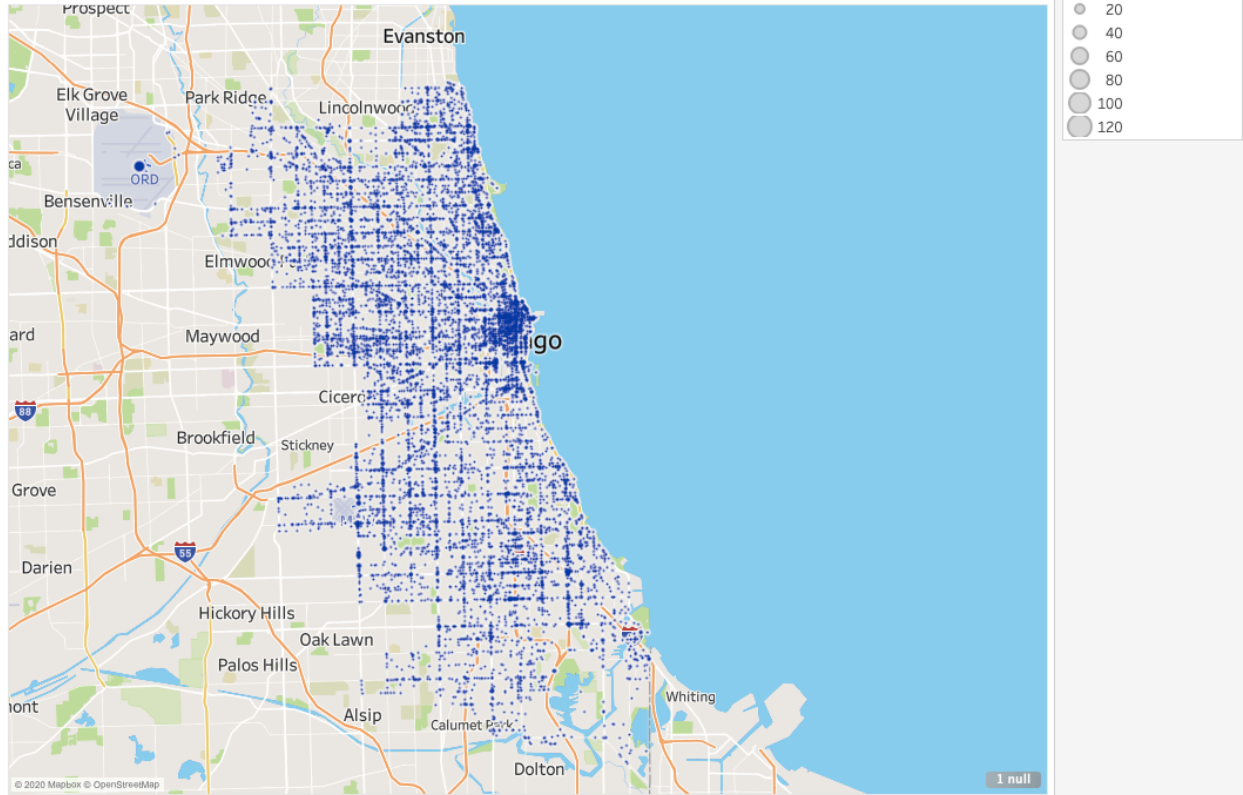


SUM(FoodServices-2007)

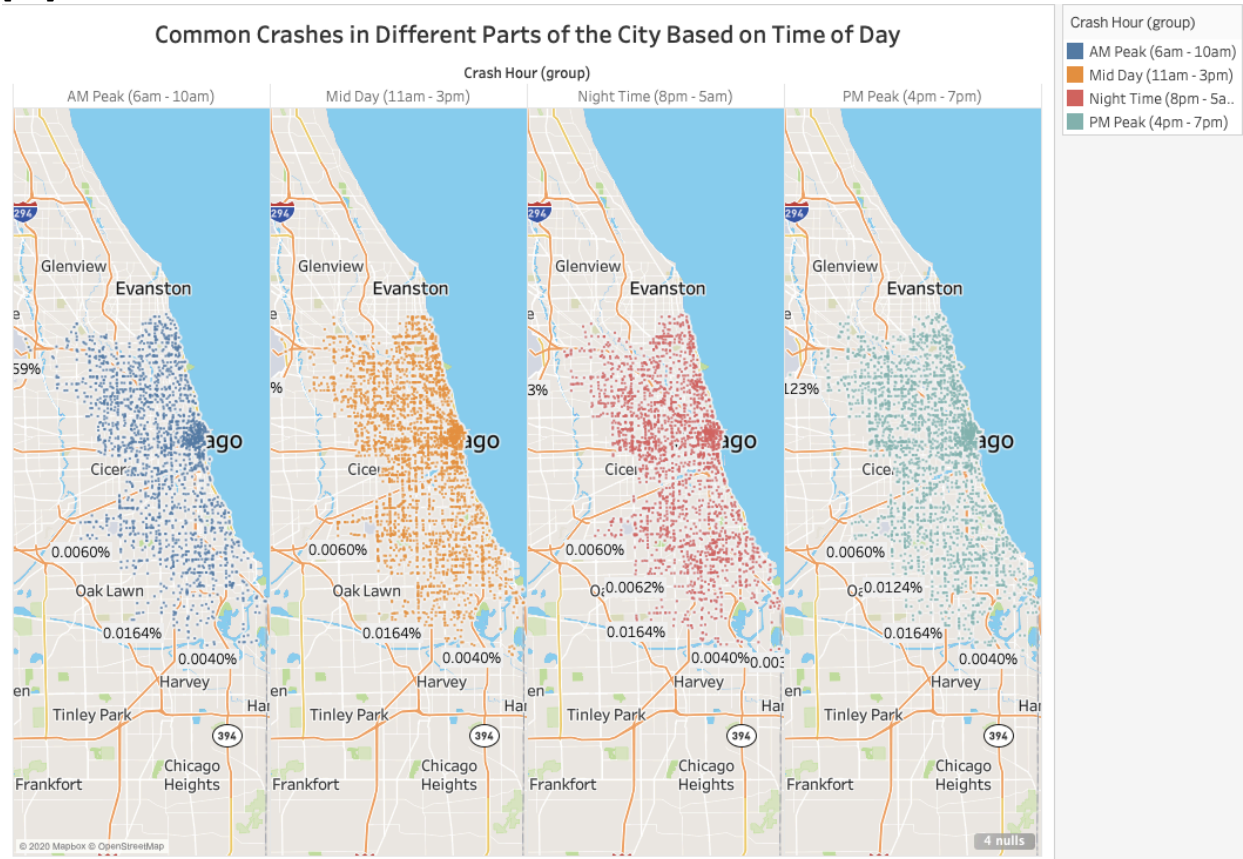
0 19,476

[2a]

## Chicago Crashes Accidents Occur

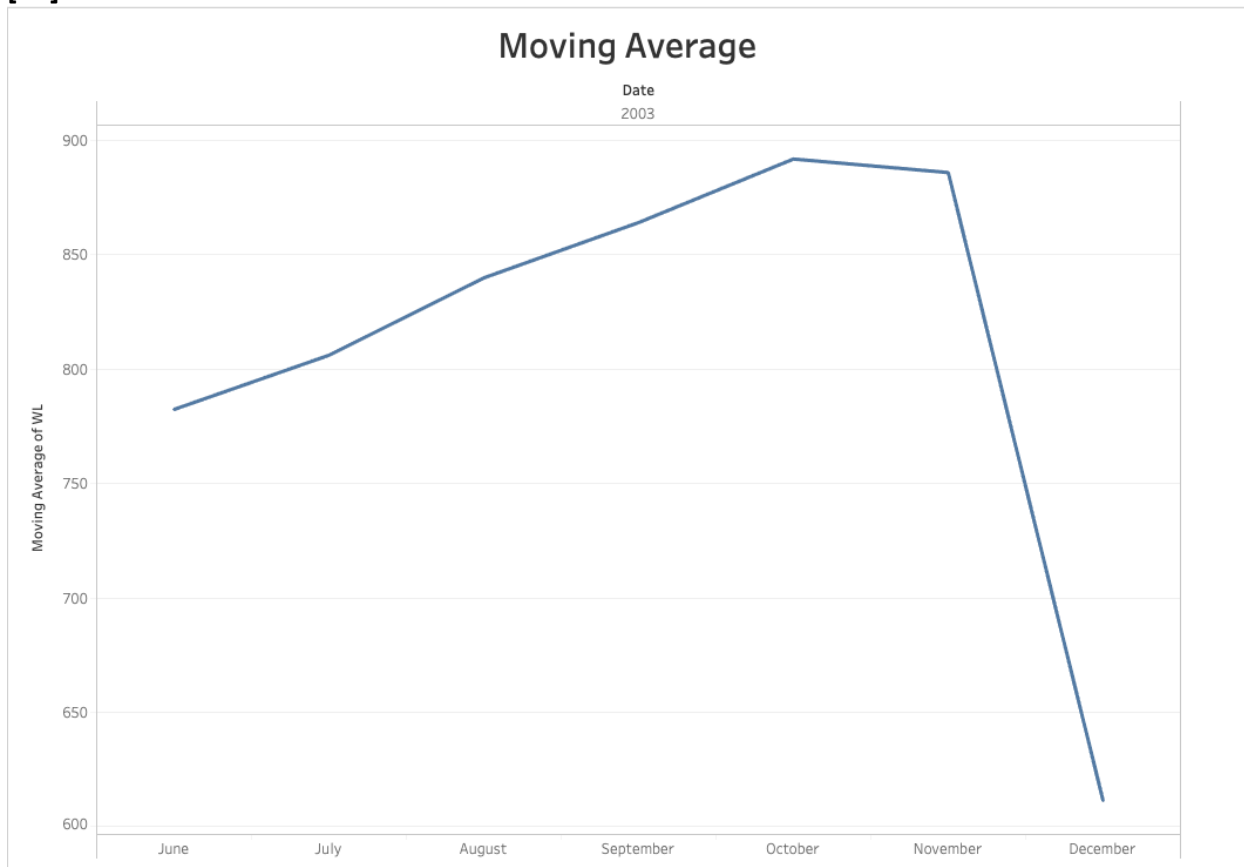


**[2b]**



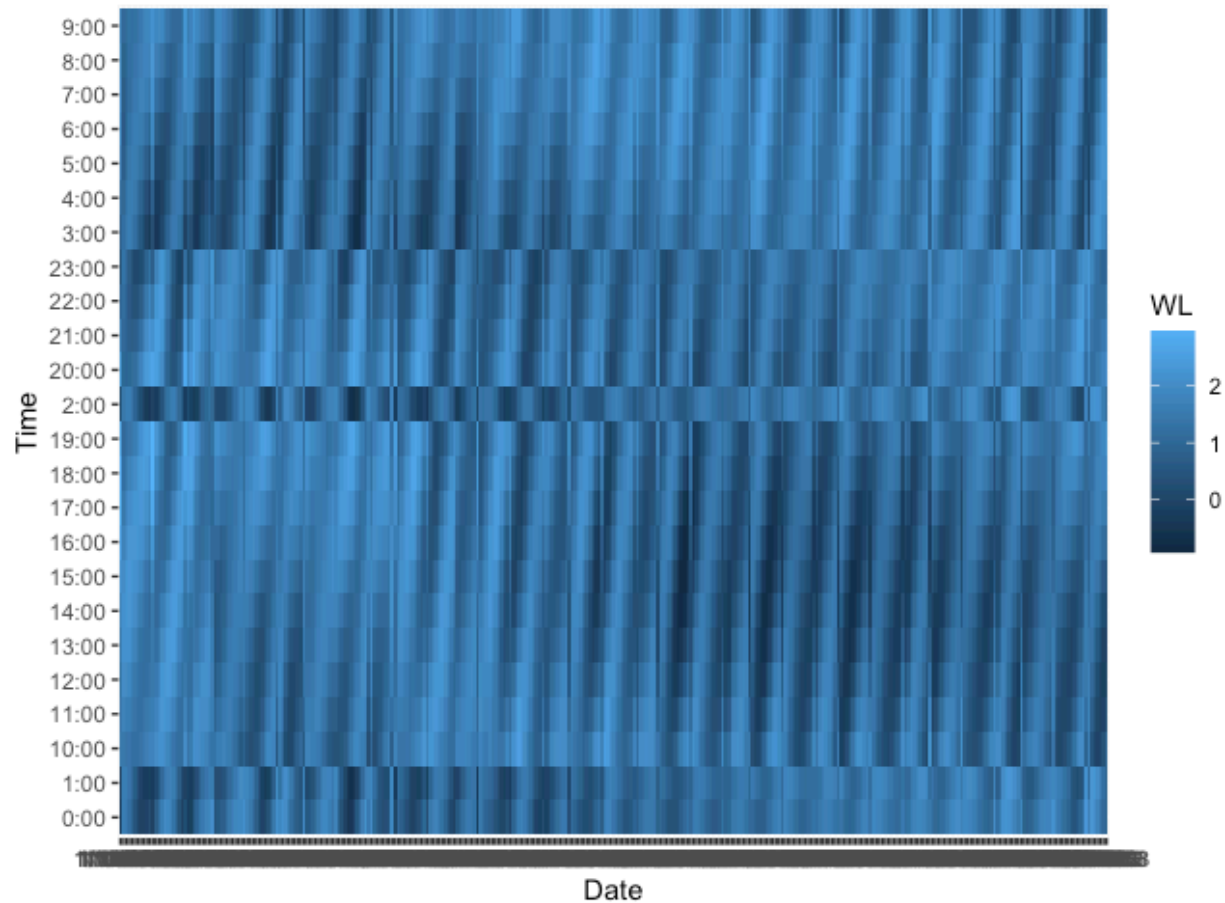
Regardless of the time of day, the density of traffic accidents in the city center is higher. Different time periods determine the tidal direction of commuting. In that case locations of traffic accidents are also different.

[3a]



[3b]

```
ggplot(PortlandWaterLevel2003, aes(x=Date, y=Time,  
                                   fill=WL),  
       na.rm=TRUE) +  
geom_tile()
```



[3c]

Figure [3b] can more intuitively express the trend of changes throughout the year, because the contrast of light and dark in the level plot is more obvious. Figure [3a] illustrates the information from a general perspective, and it is more abstract.



[4]

Level Plot on Daily Portland Water Level 2003

Day of Date	Date											
	January	February	March	April	May	June	July	August	Septemb..	October	November	December
1	1.5346	1.2954	1.2238	1.1654	1.2288	1.0440	1.1248	1.1672	1.1130	1.1593	1.1446	1.3141
2	1.5970	1.1276	1.1845	1.2475	1.2717	0.9903	1.0946	1.1983	1.1933	1.1325	1.2217	
3	1.5236	1.0218	1.1694	1.1858	1.2840	0.9994	1.0734	1.1931	1.2257	1.1834	1.2238	
4	1.4793	0.9638	1.1657	1.2163	1.2317	1.0535	1.0578	1.2145	1.2498	1.2186	1.1942	
5	1.2823	1.0112	1.1185	1.1213	1.1358	1.1570	1.0696	1.2163	1.2513	1.1928	1.2524	
6	1.2738	1.0810	1.1307	1.1422	1.1814	1.1607	1.0933	1.2110	1.2695	1.2151	1.2567	
7	1.2529	1.1007	1.1667	1.1633	1.1469	1.1511	1.1186	1.2649	1.2627	1.2535	1.3266	
8	1.2859	1.1770	1.1677	1.2147	1.1474	1.1460	1.1095	1.2775	1.2309	1.3022	1.3802	
9	1.3110	1.1709	1.2366	1.2043	1.0752	1.1066	1.1173	1.2825	1.3170	1.2365	1.4018	
10	1.3700	1.1695	1.1918	1.2303	1.0303	1.1005	1.1084	1.2585	1.2256	1.2008	1.3016	
11	1.4557	1.2813	1.1985	1.2523	1.0450	1.1075	1.0936	1.2303	1.1473	1.2334	1.2073	
12	1.5163	1.3522	1.2987	1.3755	1.0708	1.1347	1.1416	1.2473	1.0910	1.1448	1.1273	
13	1.4530	1.4284	1.5573	1.4285	1.0989	1.1465	1.1262	1.2097	1.0690	1.1366	1.2289	
14	1.3703	1.3542	1.5306	1.3438	1.0949	1.1135	1.1158	1.1884	1.1338	1.1868	1.2805	
15	1.3187	1.4545	1.6055	1.3144	1.0337	1.0880	1.1261	1.1980	1.1473	1.2474	1.3133	
16	1.2930	1.4762	1.4577	1.2720	0.9860	1.0673	1.0959	1.1755	1.1757	1.2593	1.3238	
17	1.3089	1.3339	1.2636	1.2344	0.9612	1.0700	1.0808	1.1840	1.1175	1.2622	1.2332	
18	1.2790	1.2554	1.1338	1.1527	0.8813	1.0638	1.0566	1.1970	1.1025	1.3201	1.2289	
19	1.2502	1.2637	1.1873	1.1146	0.9072	1.0630	1.0681	1.1631	1.1236	1.3373	1.2710	
20	1.2595	1.1411	1.1323	1.1800	0.9289	1.0909	1.0811	1.1541	1.1058	1.3470	1.2019	
21	1.3073	1.1269	1.0924	1.2130	0.9770	1.0736	1.0813	1.2537	1.0778	1.3108	1.2017	
22	1.3909	1.1043	1.2012	1.1286	1.0262	1.0476	1.1343	1.2688	1.1551	1.3404	1.1263	
23	1.2911	1.1564	1.0925	1.2223	1.0683	1.0339	1.1239	1.2690	1.2289	1.2273	1.1272	
24	1.2978	1.2915	1.0973	1.3041	1.1217	0.9815	1.1029	1.2720	1.2436	1.1745	1.1904	
25	1.3205	1.3206	1.1400	1.3692	1.1488	0.9638	1.1399	1.2711	1.2111	1.1710	1.2351	
26	1.3425	1.3394	1.1595	1.3349	1.1206	1.0080	1.1531	1.2699	1.2246	1.2262	1.1715	
27	1.3285	1.3148	1.0650	1.2742	1.0930	1.0927	1.1456	1.2349	1.2615	1.2190	1.0887	
28	1.3013	1.2344	0.9981	1.3302	1.1106	1.1670	1.1767	1.2252	1.2460	1.1979	1.2244	
29	1.3234		1.0029	1.3558	1.1127	1.2044	1.1945	1.1925	1.2253	1.1925	1.3052	
30	1.3641		1.0189	1.2792	1.1004	1.1712	1.1999	1.1877	1.1945	1.2179	1.2803	
31	1.3662		1.1023		1.0705		1.1659	1.1334		1.1944		

AVG(WL)

