



2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

VERSION 2.0



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As part of an interactive and collaborative process, the initial 2018 Clark County Trauma Needs Assessment Review was discussed and evaluated by the Regional Trauma Advisory Board (RTAB) and community stakeholders. In the process, a consensus was reached that addressed needed changes, corrections, deletions, and additions that would provide a clear and concise report more readily understood for all interested parties. As this trauma assessment is the foundational report that subsequent years will follow and build upon, the importance of producing an appropriate assessment for our community's needs was paramount. The many changes reflected in this second version are a result of this process.

I. Trauma Needs Assessment Tool: Clark County

1. Population	YES	NO
A. Is the Las Vegas valley population increasing?	✓	
B. Is the Las Vegas Valley population projected to continue increasing?	✓	
C. Is an area of the Las Vegas valley demonstrating population growth at a faster rate than the rest of the valley?	✓	
D. Are areas of population growth projected to continue growing at a faster rate than the rest of the valley?	✓	
E. Is there an increase in TFTC incidents in the area of population growth?	✓	
F. Are the TFTC incidents for the appropriate step level increasing (Step 3 and 4 patients for level III center, Step 1 and 2 patients for a level I or II center)?	✓	
G. Are incidents of patients meeting trauma criteria for the appropriate step level increasing at a non-trauma hospital (Step 3 or 4 for level III, Step 1 or 2 for level I or II)?	✓	
<i>Total for section 1</i>		7

2. Median Transport Times	YES	NO
A. Is the Southern Nevada Trauma System demonstrating transport times greater than 15 minutes?	✓	
B. Are transport times for the appropriate step level greater than 15 minutes (Step 1, 2, 3, and 4 for level I and II, Step 3 and 4 only for level III)?	✓	
C. Are transport times increasing for a population area demonstrating increasing growth?	✓	
<i>Total for section 2</i>		3

3. Lead Agency / System Stakeholder / Community Support	YES	NO
A. Lead agency support is based on a demonstration of need for more trauma resources for the stability of the trauma system		
B. System stakeholder support requires 3 areas of support from the application region to receive from the areas listed below:		
i. Public provider of emergency 911 services		
ii. Private provider of emergency 911 services		
iii. Established trauma center		
iv. Non-trauma center hospital		
v. Other system stakeholders which includes other healthcare industry related groups such as payors of medical benefits, educational institutions, healthcare and social advocacy groups, and other relevant groups		
C. Appropriate state or local government support in the area of an applicant seeking to join the Southern Nevada Trauma System		
<i>Total for section 3</i>		

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Note – The following section is to be completed only for applicants who are already established in the Southern Nevada Trauma System and are seeking out designation or upgrade.

4. Severely injured patients (ISS>15) discharged from acute care facilities not designated as a trauma center	YES	NO
A. Are the number of severely injured trauma patients being treated at a non-trauma center increasing?		
B. Are transfers into Southern Nevada Trauma Centers from non-trauma centers increasing?		
C. Are Step 1 and 2 incidents for current level III center catchment area increasing?		
<i>Total for section 4</i>		

5. Trauma centers currently in the Las Vegas valley (2013-2018)	
A. UMC	
i. Lowest number of trauma cases	4542
ii. Highest number of trauma cases	8832
iii. Percentage of Step 1 and II patients	15.88%
B. Sunrise	
i. Lowest number of trauma cases	824
ii. Highest number of trauma cases	2496
iii. Percentage of Step 1 and II patients	24.20%
C. St. Rose Siena	
i. Lowest number of trauma cases	369
ii. Highest number of trauma cases	810
iii. Percentage of Step 1 and II patients	2.28%
<i>Total for section 5</i>	N/A

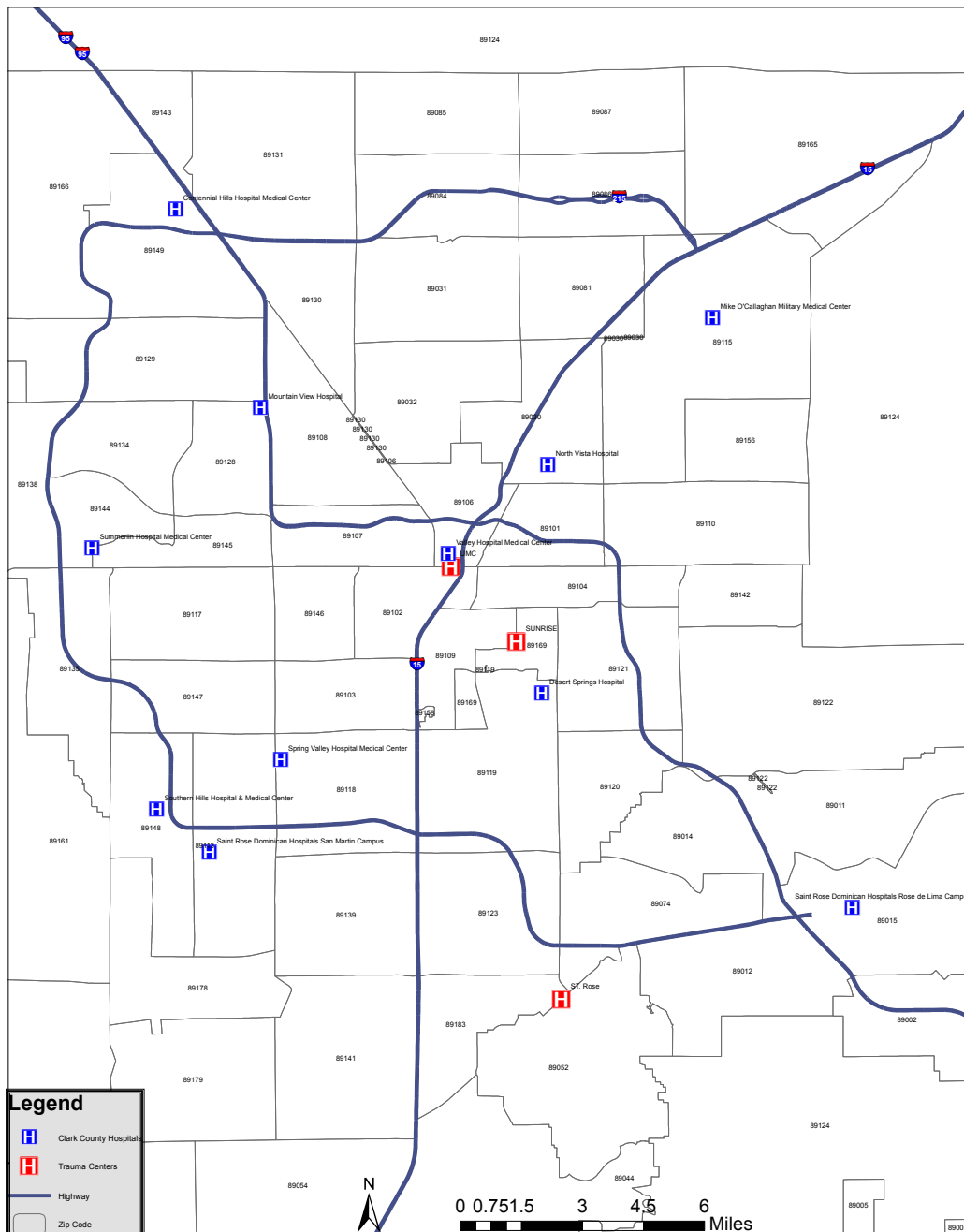
6. Any center seeking for an upgrade in designation must demonstrate substantial compliance with the requirements of the American College of Surgeons (ACS) Resources for The Optimal Care of Patients	YES	NO
<i>Total for section 6</i>		1

Application Review: Scoring Needed Per Section	YES	NO
Section 1: A minimum of 5 “Yes” answers	7	
Section 2: A minimum of 2 “Yes” answers	3	
Section 3: A minimum of 2 “Yes” answers		
Section 4: A minimum of 1 “Yes” answers		
Section 5: A minimum of 1 “Yes” answers		
Section 6: A minimum of 1 “Yes” answers	1	

II. Population Data

A. Clark County Projected Population and Historical Population

1. Clark County ZIP Code Map



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2. Clark County Population Forecast: 2010-2060

Clark County Population Forecast: 2010-2060			
Year	Population Forecast	Change in Population Forecast	Growth in Population (Percent)
2010	1,951,269	-55,078	-2.7%
2011	1,966,630	15,361	0.8%
2012	2,008,654	42,024	2.1%
2013	2,062,253	53,599	2.7%
2014	2,102,238	39,985	2.0%
2015	2,147,641	45,403	2.2%
2016	2,205,207	57,566	2.7%
2017	2,248,391	43,184	2.0%
2018	2,296,000	47,609	2.1%
2019	2,344,000	48,000	2.1%
2020	2,389,000	45,000	1.9%
2021	2,423,000	34,000	1.4%
2022	2,452,000	29,000	1.2%
2023	2,481,000	29,000	1.2%
2024	2,507,000	26,000	1.0%
2025	2,530,000	23,000	0.9%
2026	2,550,000	20,000	0.8%
2027	2,568,000	18,000	0.7%
2028	2,585,000	17,000	0.7%
2029	2,600,000	15,000	0.6%
2030	2,615,000	15,000	0.6%
2031	2,628,000	13,000	0.5%
2032	2,640,000	12,000	0.5%
2033	2,651,000	11,000	0.4%
2034	2,662,000	11,000	0.4%
2035	2,672,000	10,000	0.4%

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Clark County Population Forecast: 2010–2060

Year	Population Forecast	Change in Population Forecast	Growth in Population (Percent)
2036	2,682,000	10,000	0.4%
2037	2,692,000	10,000	0.4%
2038	2,701,000	9,000	0.3%
2039	2,710,000	9,000	0.3%
2040	2,719,000	9,000	0.3%
2041	2,728,000	9,000	0.3%
2042	2,737,000	9,000	0.3%
2043	2,747,000	10,000	0.4%
2044	2,756,000	9,000	0.3%
2045	2,766,000	10,000	0.4%
2046	2,776,000	10,000	0.4%
2047	2,786,000	10,000	0.4%
2048	2,796,000	10,000	0.4%
2049	2,806,000	10,000	0.4%
2050	2,816,000	10,000	0.4%
2051	2,825,000	9,000	0.3%
2052	2,835,000	10,000	0.4%
2053	2,844,000	9,000	0.3%
2054	2,854,000	10,000	0.4%
2055	2,863,000	9,000	0.3%
2056	2,871,000	8,000	0.3%
2057	2,879,000	8,000	0.3%
2058	2,886,000	7,000	0.2%
2059	2,894,000	8,000	0.3%
2060	2,900,000	6,000	0.2%

Source: The Center for Business and Economic Research University of Nevada, Las Vegas

Note: The average annual forecasted growth rate is 0.6 percent.

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3. Clark County Historical Population by Zip Code, 2014-2018

Clark County Historical Population by Zip Code, 2014-2018								
Zip	2018	2017	2016	2015	2014	Absolute Growth 2014-2018	Growth Rate 2014-2018	Growth Rate 2014-2017
89002	36,793	36,154	35,209	34,626	33,776	3,017	8.93	7.04
89004	315	307	302	288	285	30	10.53	7.72
89005	16,104	16,508	16,570	16,011	15,852	252	1.59	4.14
89007	1,064	1,067	1,114	1,111	1,066	-2	-0.19	0.09
89011	31,074	29,387	27,640	25,405	24,460	6,614	27.04	20.14
89012	36,374	36,159	35,193	33,843	32,211	4,163	12.92	12.26
89014	42,471	41,767	41,629	41,137	40,341	2,130	5.28	3.53
89015	42,528	42,266	41,963	41,871	42,050	478	1.14	0.51
89018	1,153	1,294	1,280	1,251	1,238	-85	-6.87	4.52
89019	2,786	2,784	2,748	2,715	2,731	55	2.01	1.94
89021	3,554	3,240	3,151	3,090	3,075	479	15.58	5.37
89025	1,452	1,371	1,393	1,380	1,371	81	5.91	0.00
89027	20,158	18,994	18,256	17,471	16,885	3,273	19.38	12.49
89029	10,538	10,289	9,922	9,686	9,477	1,061	11.20	8.57
89030	54,973	54,953	54,445	53,220	52,336	2,637	5.04	5.00
89031	71,137	70,384	69,607	67,887	66,453	4,684	7.05	5.92
89032	46,542	46,124	45,910	45,330	44,893	1,649	3.67	2.74
89034	2,707	2,344	2,070	1,829	1,639	1,068	65.16	43.01
89039	206	206	204	200	197	9	4.57	4.57
89040	3,776	4,045	3,933	3,871	3,875	-99	-2.55	4.39
89044	23,420	21,325	19,653	18,373	17,467	5,953	34.08	22.09
89046	406	405	394	382	379	27	7.12	6.86
89052	58,648	57,998	57,421	55,337	54,426	4,222	7.76	6.56
89054	102	102	102	101	100	2	2.00	2.00

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Clark County Historical Population by Zip Code, 2014-2018

Zip	2018	2017	2016	2015	2014	Absolute Growth 2014-2018	Growth Rate 2014-2018	Growth Rate 2014-2017
89074	55,455	55,163	52,803	51,807	51,080	4,375	8.56	7.99
89081	38,540	37,600	35,806	34,473	33,438	5,102	15.26	12.45
89084	28,263	27,434	26,499	25,213	24,647	3,616	14.67	11.31
89085	3,747	3,747	3,710	3,631	3,586	161	4.49	4.49
89086	5,103	5,103	5,085	4,977	4,918	185	3.76	3.76
89101	41,672	41,868	41,523	41,310	41,677	-5	-0.01	0.46
89102	38,181	36,838	36,476	36,475	36,084	2,097	5.81	2.09
89103	49,618	49,626	49,128	48,090	47,526	2,092	4.40	4.42
89104	37,032	37,046	36,656	36,186	35,824	1,208	3.37	3.41
89106	26,751	27,058	27,122	27,119	26,847	-96	-0.36	0.79
89107	40,580	40,580	40,562	39,955	39,481	1,099	2.78	2.78
89108	80,869	80,572	79,599	77,884	77,216	3,653	4.73	4.35
89109	5,539	5,539	5,484	6,422	6,346	-807	-12.72	-12.72
89110	79,077	78,851	78,054	77,820	76,899	2,178	2.83	2.54
89113	31,853	30,881	29,114	24,334	23,799	8,054	33.84	29.76
89115	74,336	73,292	72,044	70,805	69,929	4,407	6.30	4.81
89117	58,913	58,915	58,818	57,139	56,271	2,642	4.70	4.70
89118	25,884	25,293	25,717	25,666	25,252	632	2.50	0.16
89119	49,614	49,615	47,828	50,225	49,995	-381	-0.76	-0.76
89120	24,506	24,371	24,341	24,272	24,059	447	1.86	1.30
89121	72,173	72,155	69,858	68,383	67,593	4,580	6.78	6.75
89122	55,750	55,227	54,348	52,362	51,206	4,544	8.87	7.85
89123	64,061	63,914	63,255	62,927	61,173	2,888	4.72	4.48
89124	7,169	7,573	7,760	7,426	7,164	5	0.07	5.71
89128	39,379	39,379	39,061	38,237	37,786	1,593	4.22	4.22
89129	56,848	56,646	56,533	55,619	54,667	2,181	3.99	3.62

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Clark County Historical Population by Zip Code, 2014-2018

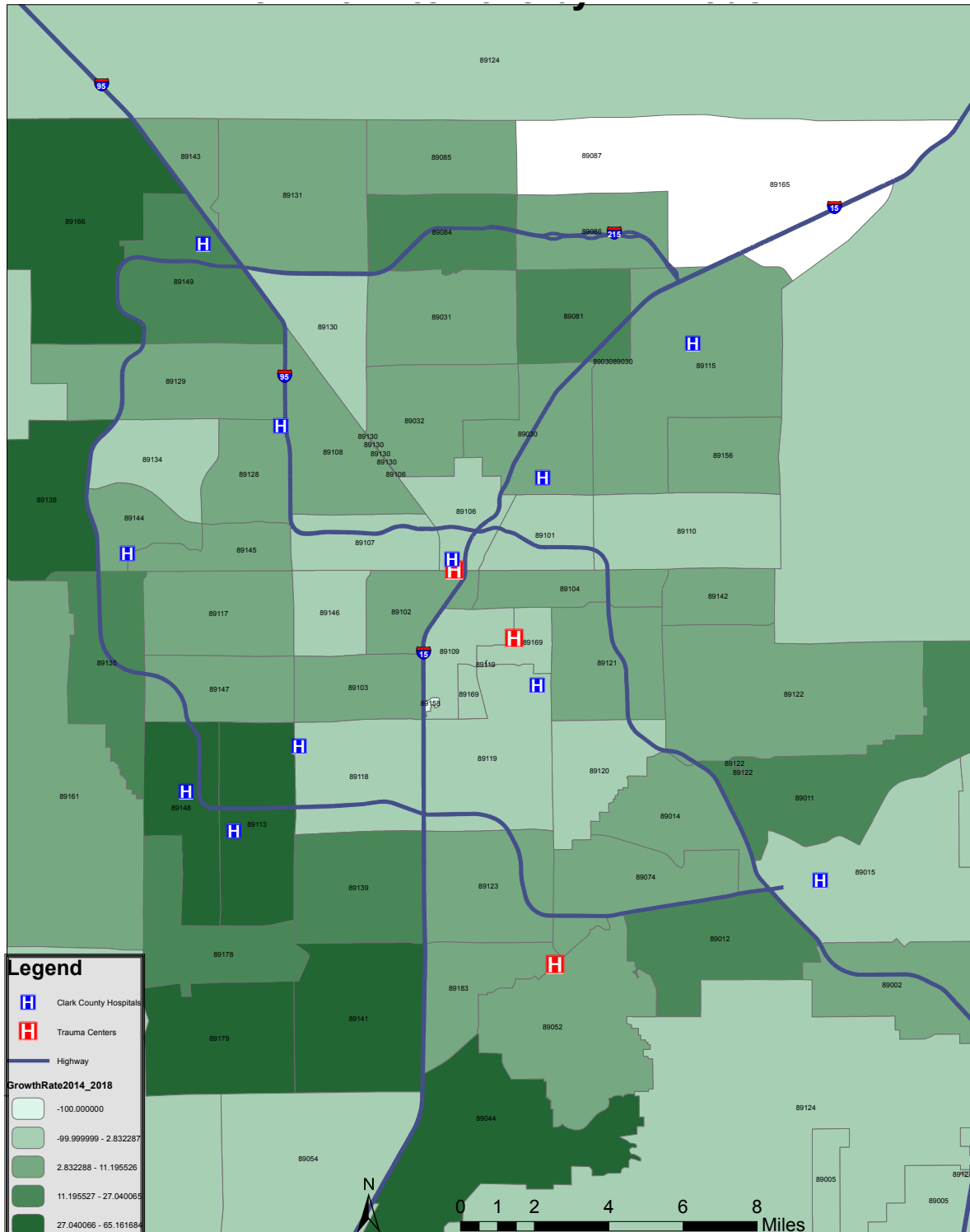
Zip	2018	2017	2016	2015	2014	Absolute Growth 2014-2018	Growth Rate 2014-2018	Growth Rate 2014-2017
89130	33,556	33,443	33,327	33,304	33,069	487	1.47	1.13
89131	49,455	48,902	48,165	47,551	46,451	3,004	6.47	5.28
89134	25,298	25,298	25,365	25,365	25,193	105	0.42	0.42
89135	32,316	31,224	30,515	28,654	27,636	4,680	16.93	12.98
89138	18,748	17,296	16,103	14,582	13,755	4,993	36.30	25.74
89139	41,653	40,705	39,085	36,936	34,619	7,034	20.32	17.58
89141	38,678	32,782	31,808	29,661	28,144	10,534	37.43	16.48
89142	37,609	37,118	36,891	36,584	35,284	2,325	6.59	5.20
89143	14,658	14,658	14,652	14,365	14,170	488	3.44	3.44
89144	19,824	19,824	19,641	19,225	18,996	828	4.36	4.36
89145	28,171	28,164	27,885	27,095	26,775	1,396	5.21	5.19
89146	19,739	19,745	19,747	19,462	19,232	507	2.64	2.67
89147	60,349	59,476	58,972	56,476	54,881	5,468	9.96	8.37
89148	66,931	62,538	57,723	50,735	47,296	19,635	41.52	32.23
89149	41,365	40,550	38,959	36,667	35,584	5,781	16.25	13.96
89156	30,418	30,379	30,081	29,227	28,887	1,531	5.30	5.16
89158	0	0	802	799	781	-781	-100.00	-100.00
89161	506	471	478	469	465	41	8.82	1.29
89166	17,830	16,794	15,534	14,170	12,408	5,422	43.70	35.35
89169	24,946	24,946	24,708	26,053	26,256	-1,310	-4.99	-4.99
89178	35,355	34,218	32,812	30,617	28,746	6,609	22.99	19.04
89179	9,740	9,325	8,619	7,458	6,049	3,691	61.02	54.16
89183	38,275	36,777	36,041	37,011	36,516	1,759	4.82	0.71
Total	2,284,616	2,248,390	2,205,207	2,147,641	2,102,238	182,378	8.68	6.95

Source: Clark County Department of Comprehensive Planning Data
(Using Southern Nevada Consensus Population Estimate, August - Roll Close 2018)



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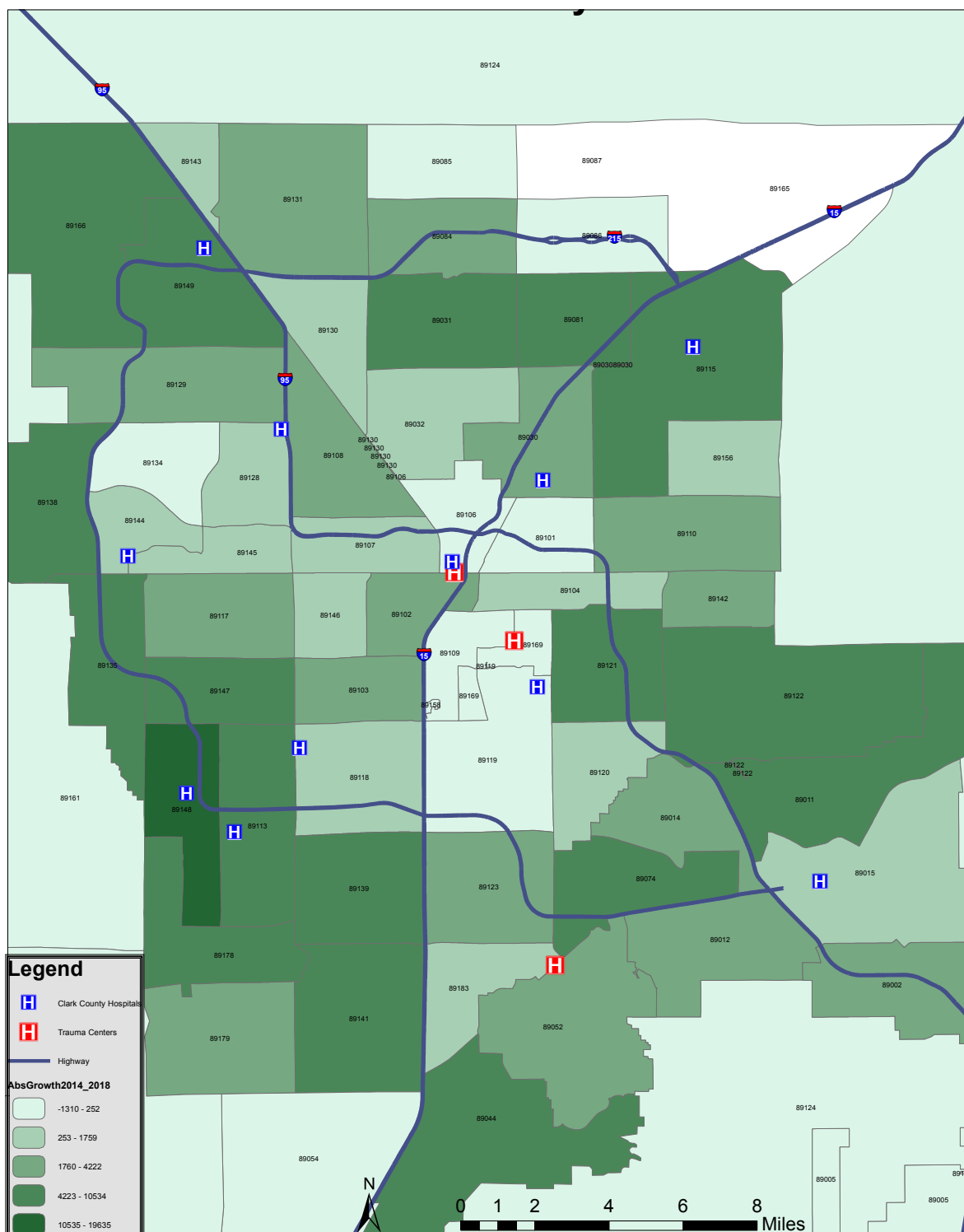
4. Population Growth Rate in Clark County, 2014-2018



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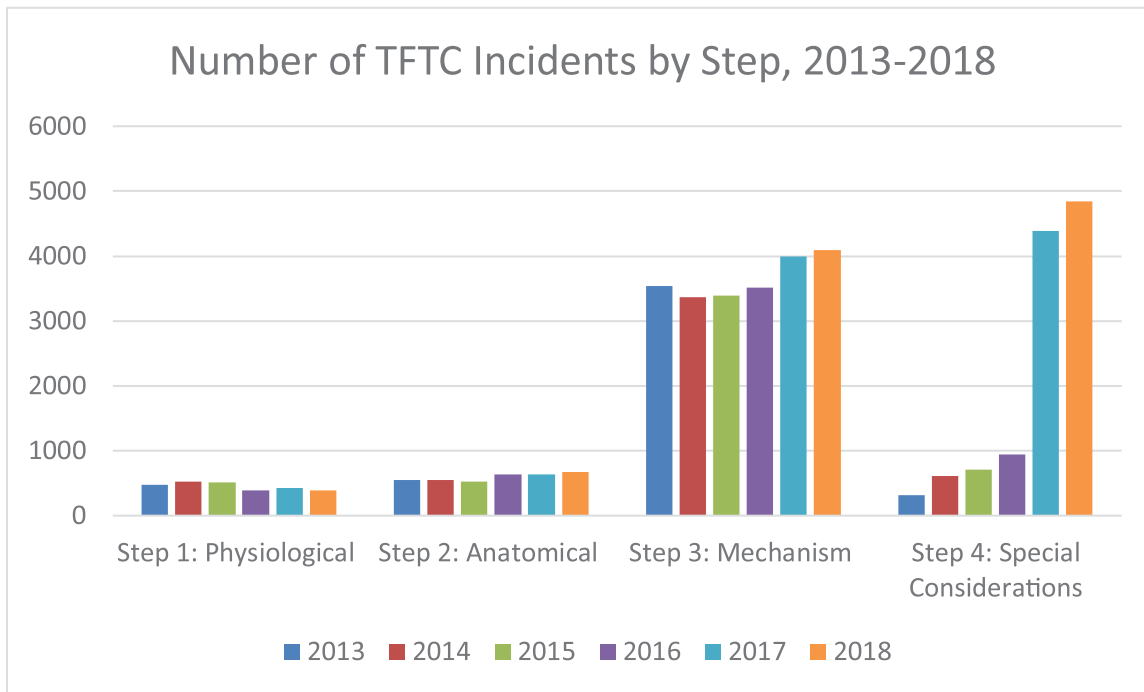
5. Absolute Population Growth of Clark County 2014-2018



III. SNHD's Trauma Field Triage Criteria (TFTC) Data

A. TFTC Incident Totals

1. Number of TFTC Incidents by Step, 2013-2018

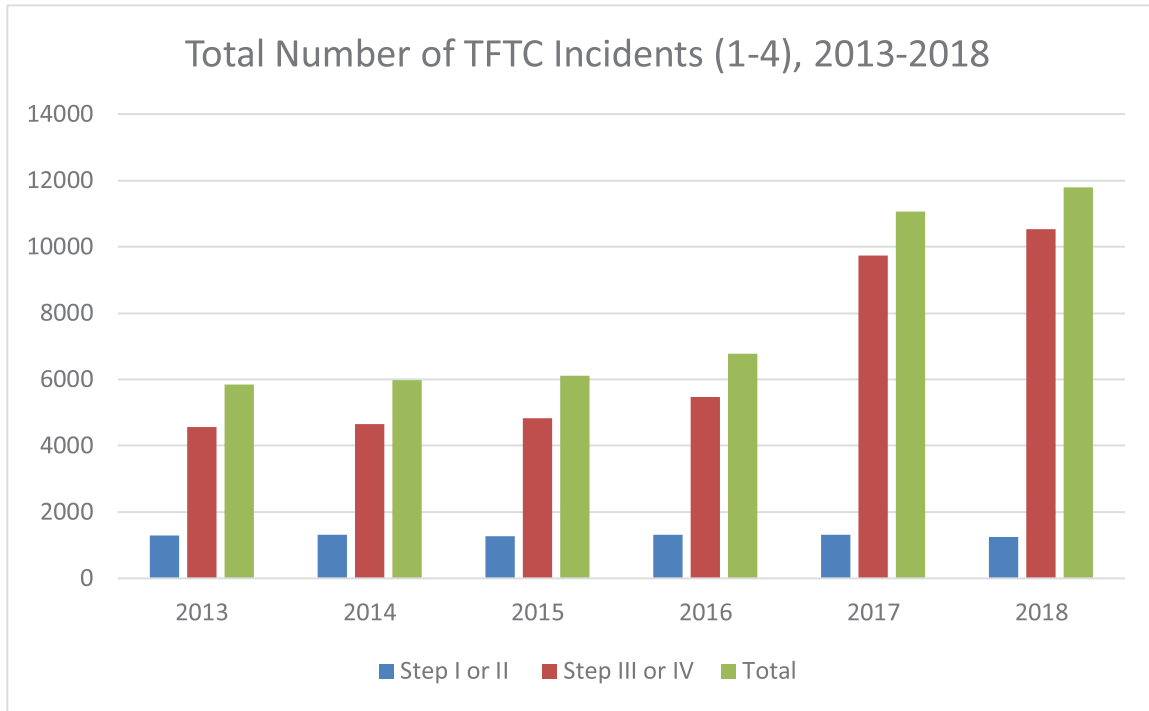


Number of TFTC Incidents by Step, 2013-2018						
	2013	2014	2015	2016	2017	2018
Step 1: Physiological	640	685	645	522	509	466
Step 2: Anatomical	653	638	625	787	811	782
Step 3: Mechanism	4186	3932	3992	4324	4761	4879
Step 4: Special Considerations	369	720	847	1137	4979	5663
All	5848	5975	6109	6770	11060	11793
<i>Source: SNHD TFTC Data</i>						
<i>Note: The total for all steps in 2018 includes 3 incidents that were not classified. Includes all TFTC Incidents in the Southern Nevada Trauma System.</i>						

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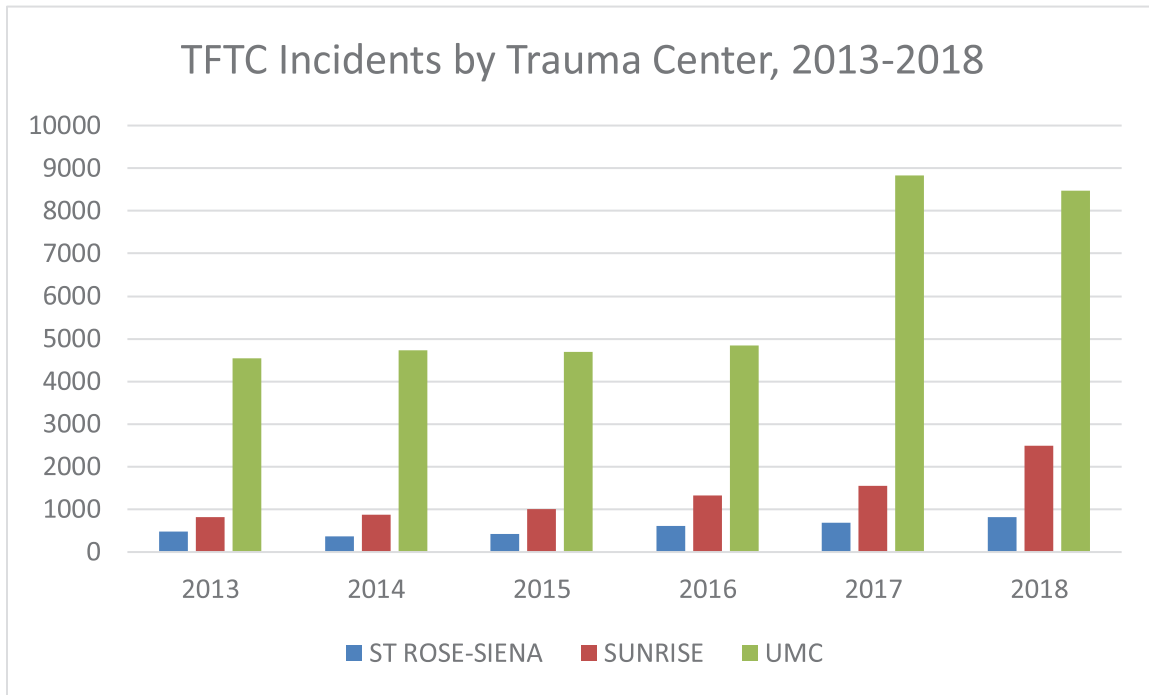
2. Total Number of TFTC Incidents (1-4), 2013-2018



Total Number of TFTC Incidents (1-4), 2013-2018						
	2013	2014	2015	2016	2017	2018
Step 1 or 2	1293	1323	1270	1309	1320	1248
Step 3 or 4	4555	4652	4839	5461	9740	10542
Total	5848	5975	6109	6770	11060	11793
<i>Source: SNHD TFTC Data</i>						
<i>Note: The total for all steps in 2018 includes 3 incidents that were not classified. Includes all TFTC transports in the Southern Nevada Trauma System.</i>						

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3. TFTC Incidents by Trauma Center, 2013-2018

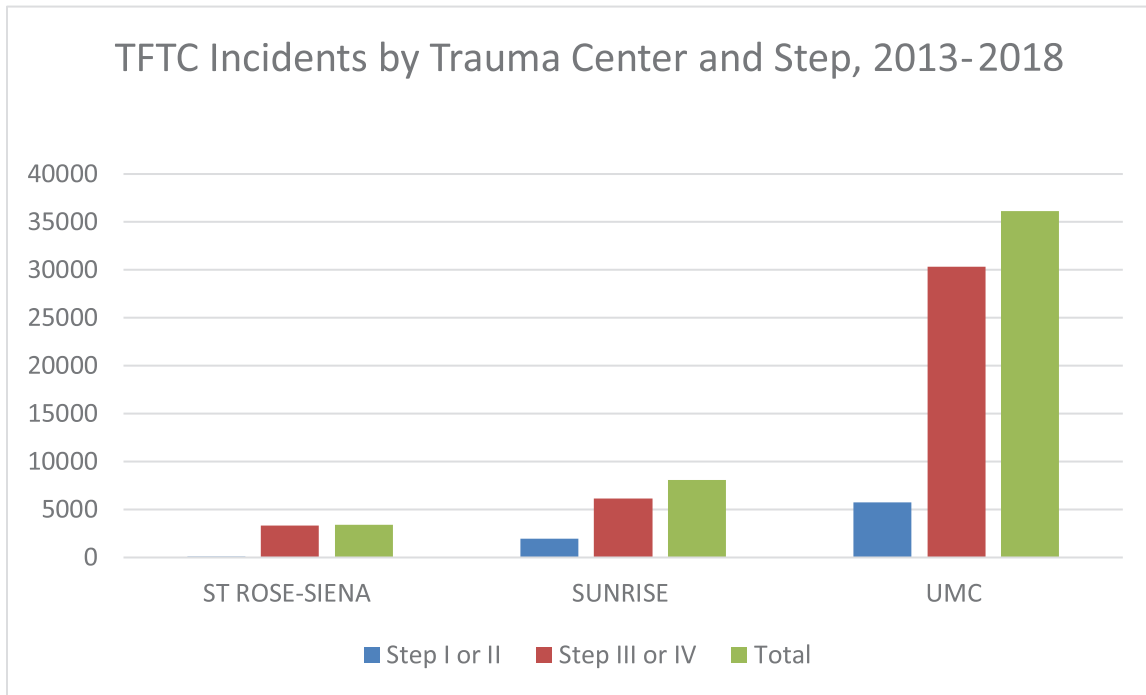


TFTC Incidents by Trauma Center, 2013-2018							
	2013	2014	2015	2016	2017	2018	Total
St Rose-Siena	482	369	421	612	683	810	3377
Sunrise	824	882	1001	1322	1545	2496	8070
UMC	4542	4724	4687	4836	8832	8487	36108
Total	5848	5975	6109	6770	11060	11793	47555
<i>Source: SNHD TFTC Data</i>							
<i>Note: Includes all TFTC transports in the Southern Nevada Trauma System.</i>							

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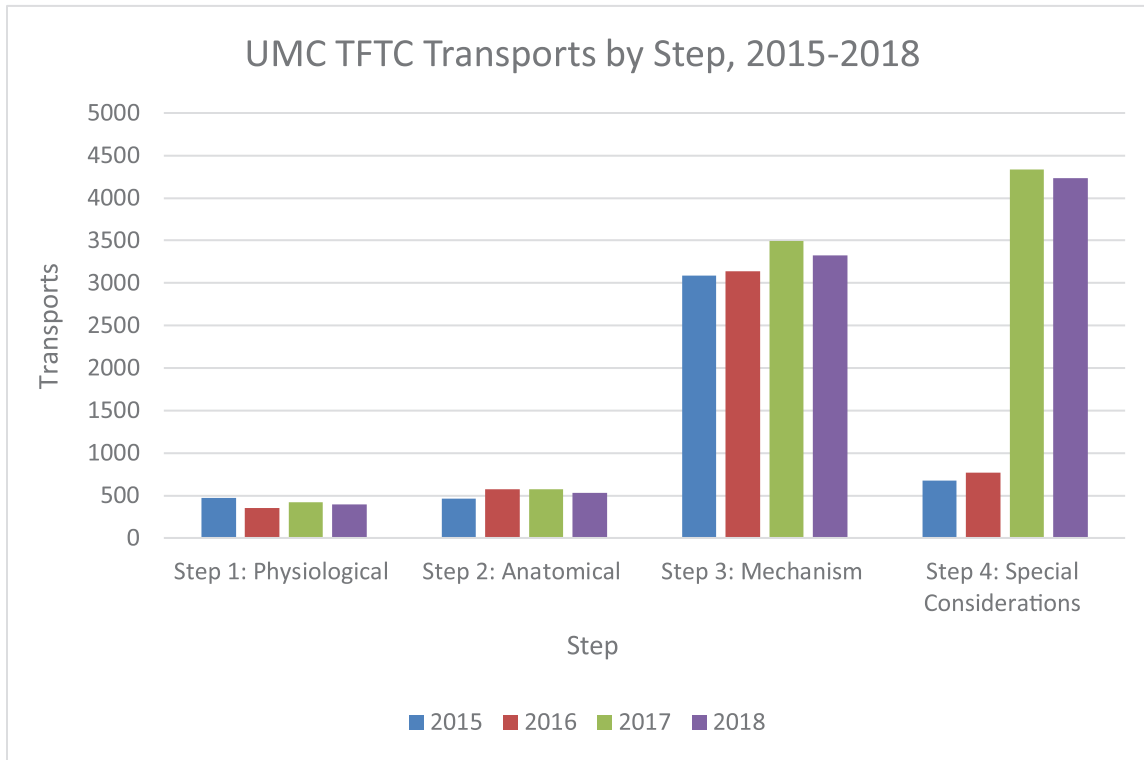
4. TFTC Incidents by Trauma Center and Step, 2013-2018



TFTC Incidents by Trauma Center and Step, 2013-2018			
	Step 1 or 2	Step 3 or 4	All
St Rose-Siena	77	3300	3377
Sunrise	1953	6114	8070
UMC	5733	30375	36108
<i>Source: SNHD TFTC Data</i>			
<i>Note: Sunrise includes 3 unclassified steps. Includes all TFTC transports in the Southern Nevada Trauma System.</i>			

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5. UMC TFTC Transports by Step, 2015-2018

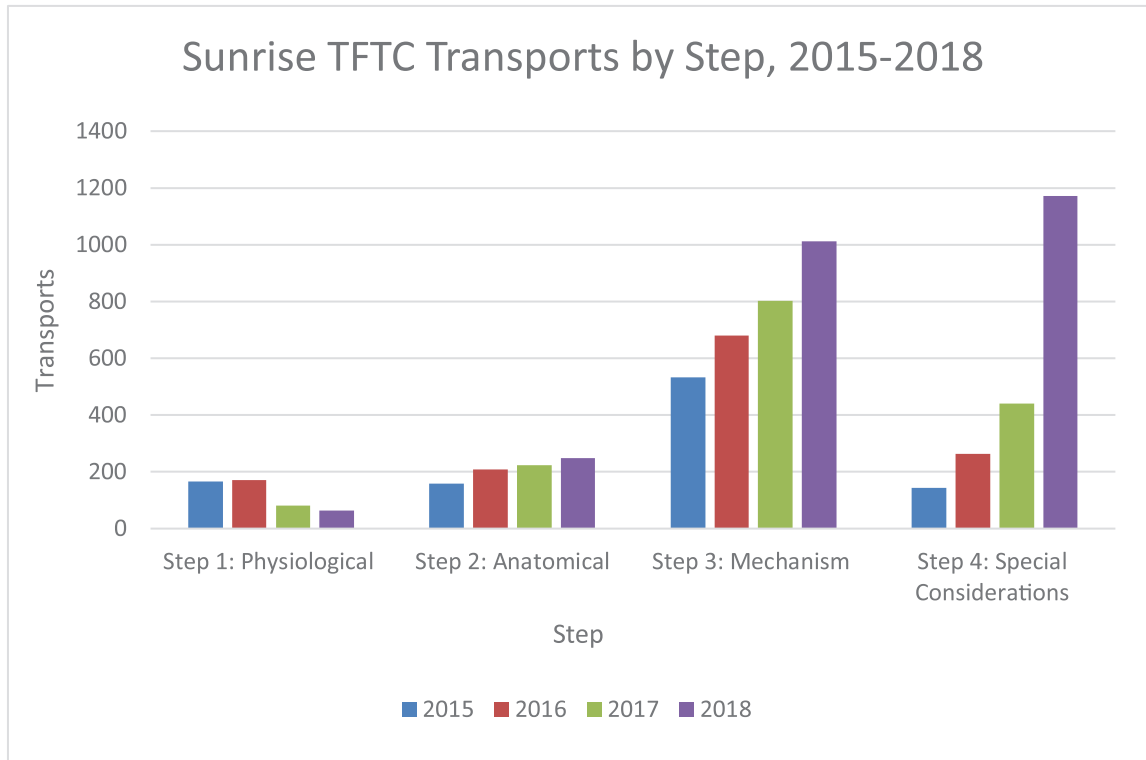


UMC TFTC Transports by Step, 2015-2018				
	2015	2016	2017	2018
Step 1: Physiological	468	351	424	398
Step 2: Anatomical	461	576	576	529
Step 3: Mechanism	3086	3138	3499	3325
Step 4: Special Considerations	672	771	4333	4235
Total	4687	4836	8832	8487
<i>Source: SNHD TFTC Data</i>				
<i>Note: Includes all TFTC transports in the Southern Nevada Trauma System</i>				

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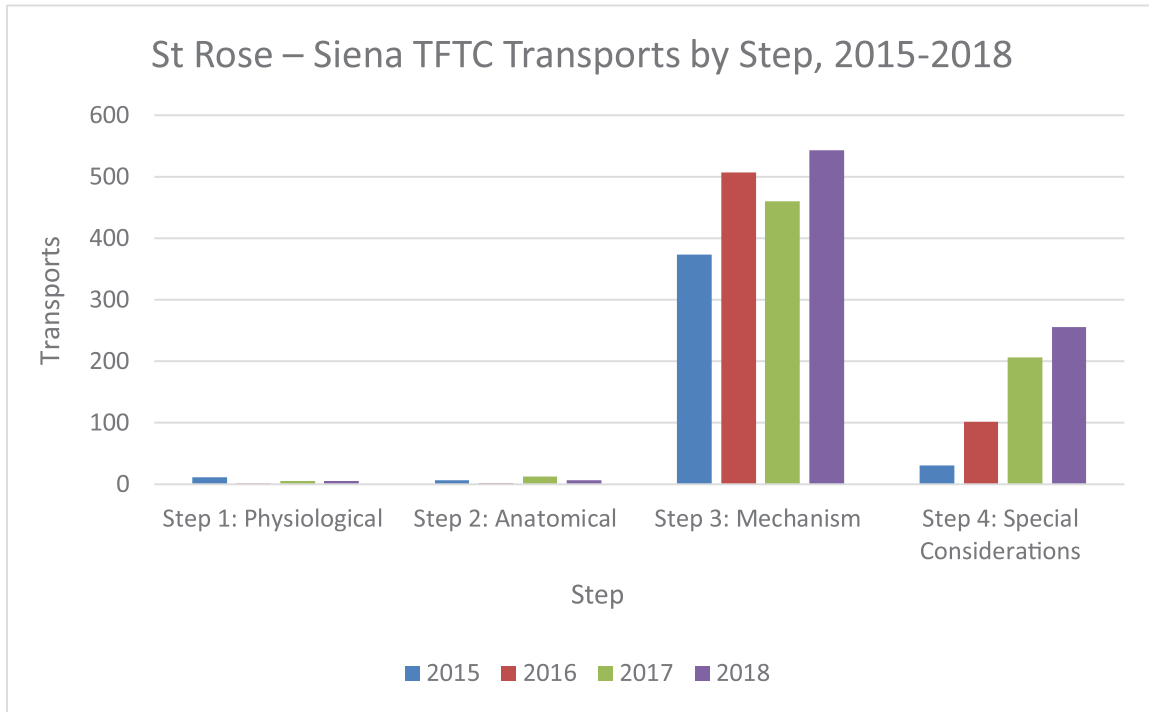


6. Sunrise TFTC Transports by Step, 2015-2018



Sunrise TFTC Transports by Step, 2015-2018				
	2015	2016	2017	2018
Step 1: Physiological	166	170	80	63
Step 2: Anatomical	158	209	223	247
Step 3: Mechanism	533	679	802	1011
Step 4: Special Considerations	144	264	440	1172
Total	1001	1322	1545	2496
<i>Source: SNHD TFTC Data</i>				
<i>Note: Sunrise includes 3 unclassified steps in 2018. Includes all TFTC transports in the Southern Nevada Trauma System</i>				

7. St. Rose – Siena TFTC Transports by Step



St Rose – Siena TFTC Transports by Step, 2015-2018				
	2015	2016	2017	2018
Step 1: Physiological	11	1	5	5
Step 2: Anatomical	6	2	12	6
Step 3: Mechanism	373	507	460	543
Step 4: Special Considerations	31	102	206	256
Total	421	612	683	810
<i>Source: SNHD TFTC Data</i>				
<i>Note: Includes all TFTC transports in the Southern Nevada Trauma System</i>				

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



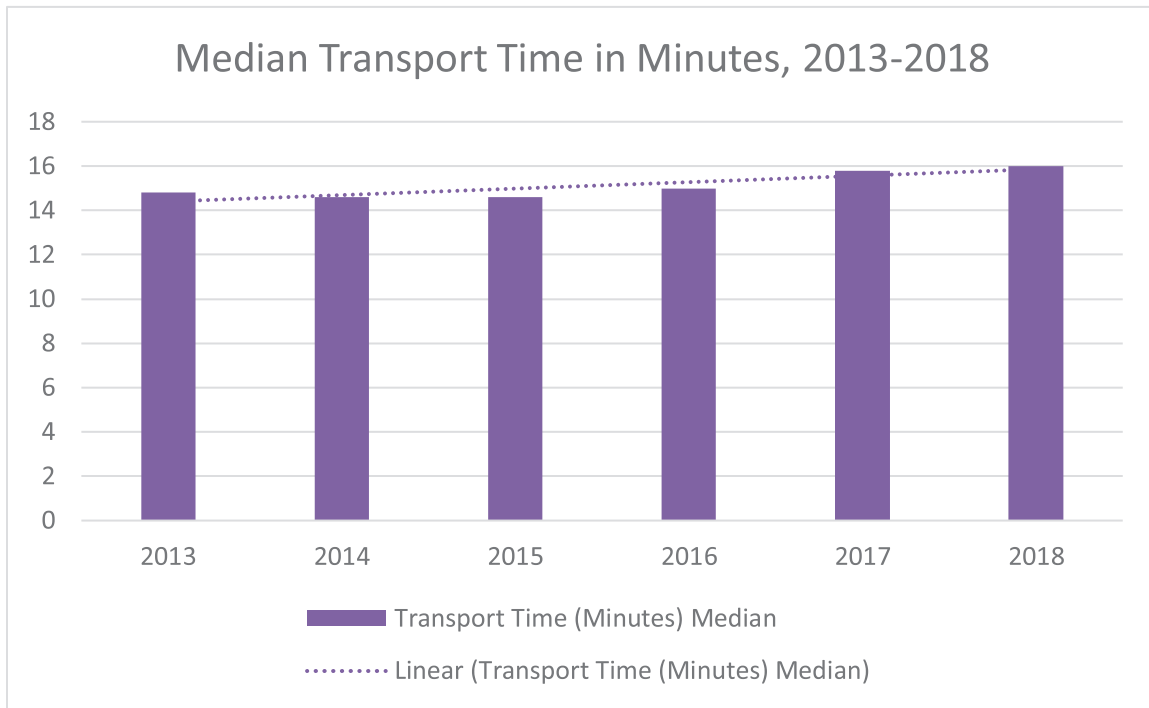
B. Transport Times

1. Median Transport Time by Step (1-4), 2013-2018

Median Transport Time by Step (1-4), 2013-2018							
		Year					
		2013	2014	2015	2016	2017	2018
Step 1: Physiological	N	559	622	600	489	475	433
	Median (Minutes)	12m 24s	12m 36s	12m 24s	12m 0s	13m 12s	12m 48s
Step 2: Anatomical	N	623	603	606	762	784	758
	Median (Minutes)	13m 36s	12m 12s	11m 48s	12m 12s	13m 12s	12m 36s
Step 3: Mechanism	N	3863	3658	3727	4072	4531	4684
	Median (Minutes)	15m 12s	15m 12s	15m 36s	15m 42s	15m 48s	16m 24s
Step 4: Special Considerations	N	349	694	815	1101	4886	5588
	Median (Minutes)	15m 12s	14m 24s	15m 0s	15m 36s	16m 12s	16m 24s
<i>Source: SNHD TFC Data</i>							
<p><i>Note: Includes all TFC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds. Includes 3 unclassified steps in 2018. Since the step totals only include transport times greater than 0 seconds, the step totals are different than the totals presented in Section A, 1-7.</i></p>							

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

2. Median Transport Time in Minutes, 2013-2018

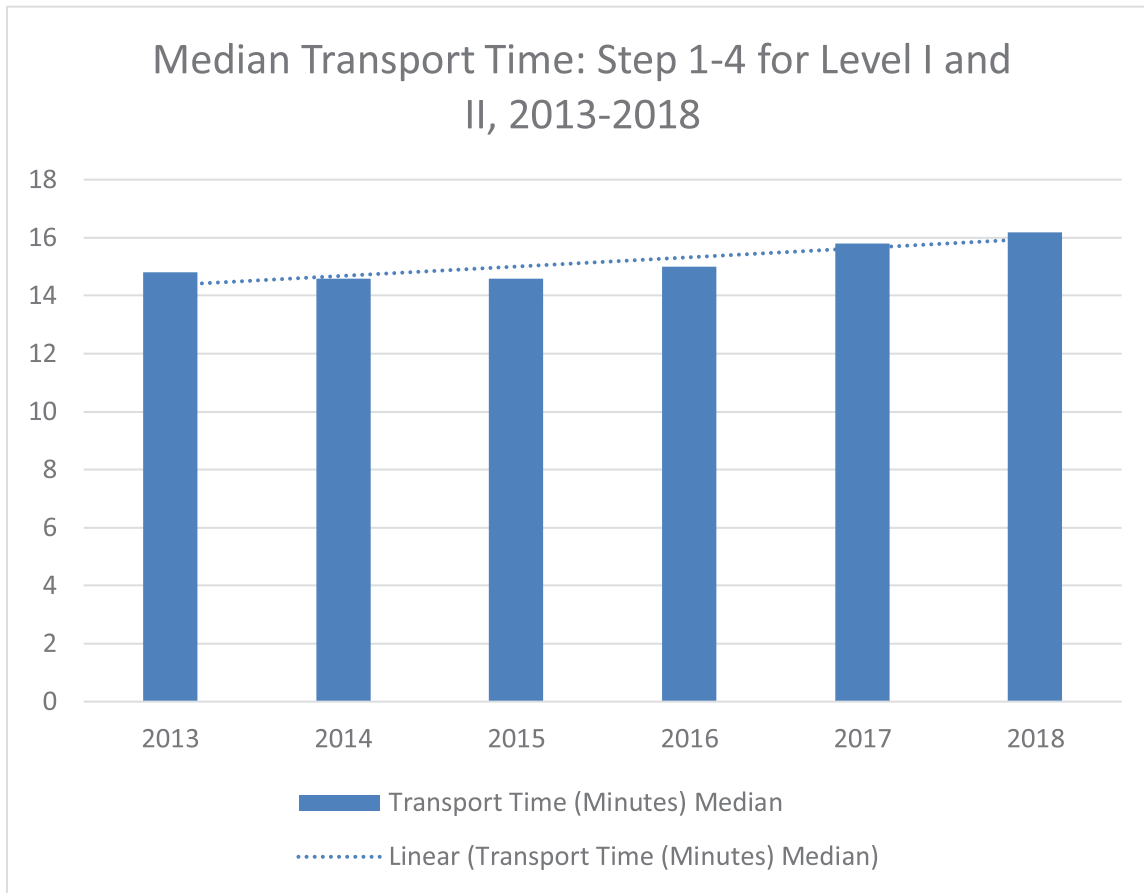


Median Transport Time in Minutes, 2013-2018							
	Year						
		2013	2014	2015	2016	2017	2018
Transport Time (Minutes)	N	5394	5577	5748	6424	10676	11466
	Median	14m 48s	14m 36s	14m 36s	15m 0s	15m 48s	16m 0s
<i>Source: SNHD TFTC Data</i>							
<p><i>Note: Includes all TFTC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds. Since the step totals only include transport times greater than 0 seconds, the step totals are different than the totals presented in Section A, 1-7.</i></p>							

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3. Median Transport Time: Step 1-4 for Level I and II, 2013-2018



Median Transport Time: Step 1-4 for Level I and II, 2013-2018							
	Year						
		2013	2014	2015	2016	2017	2018
Transport Time (Minutes)	N	4942	5252	5361	5842	9993	10663
	Median	14m 48s	14m 36s	14m 36s	15m 0s	15m 48s	16m 12s
Source: SNHD TFTC Data							
<p>Note: Includes TFTC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds. Since the step totals only include transport times greater than 0 seconds, the step totals are different than the totals presented in Section A, 1-7.</p>							

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

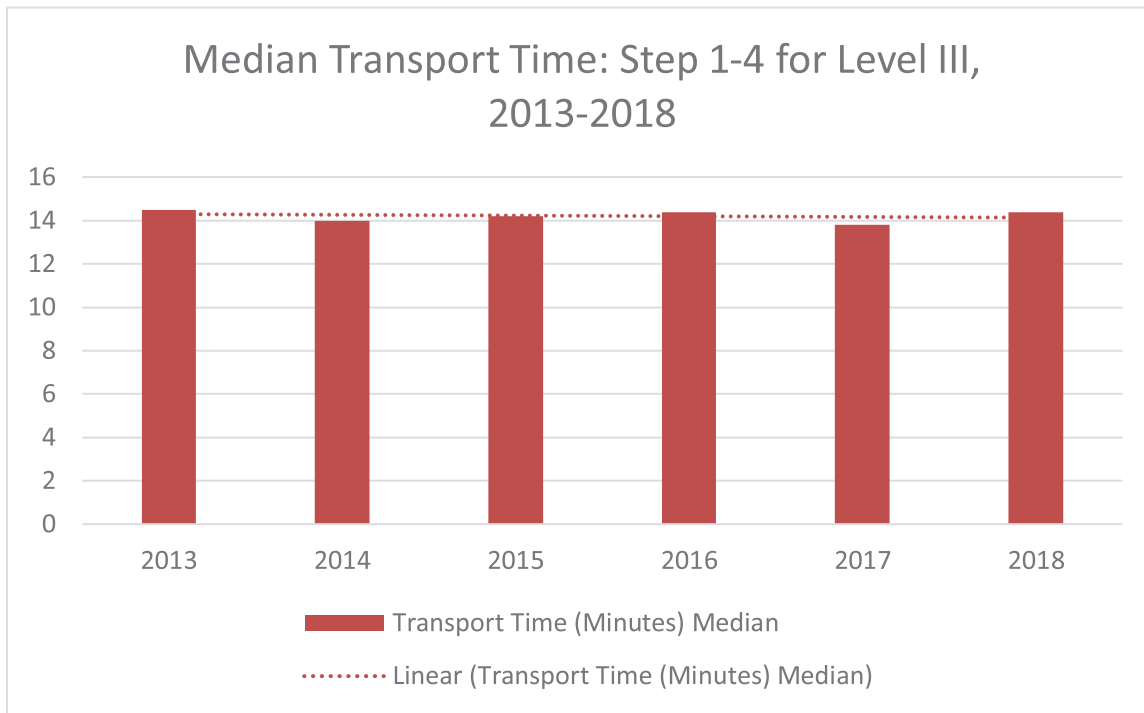
4. Median Transport Time by Step (1-4) for Trauma Center Levels I and II, 2013-2018

Median Transport Time by Step (Only for Level I and II), 2013-2018							
		Year					
		2013	2014	2015	2016	2017	2018
Step 1: Physiological	N	552	612	590	488	470	428
	Median (Minutes)	12m 30s	12m 48s	12m 24s	11m 54s	13m 12s	12m 48s
Step 2: Anatomical	N	616	600	600	760	772	752
	Median (Minutes)	13m 36s	12m 18s	11m 48s	12m 12s	13m 18s	12m 36s
Step 3: Mechanism	N	3433	3353	3385	3593	4071	4147
	Median (Minutes)	15m 24s	15m 12s	15m 48s	16m 0s	16m 12s	16m 36s
Step 4: Special Considerations	N	341	687	786	1001	4680	5333
	Median (Minutes)	15m 12s	14m 24s	15m 0s	15m 48s	16m 12s	16m 36s
<i>Source: SNHD TFC Data</i>							
<p><i>Note: Includes TFC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds. Includes 3 unclassified steps in 2018. Since the step totals only include transport times greater than 0 seconds, the step totals are different than the totals presented in Section A, 1-7.</i></p>							

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5. Median Transport Time: Step 1-4 for Level III, 2013-2018



Median Transport Time: Step 1-4 for Level III, 2013-2018							
	Year						
		2013	2014	2015	2016	2017	2018
Transport Time (Minutes)	N	452	325	387	582	683	801
	Median	14m 24s	13m 36s	14m 12s	14m 24s	13m 48s	14m 24s
<i>Source: SNHD TFTC Data</i>							
<p><i>Note: Includes all TFTC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds. Since the step totals only include transport times greater than 0 seconds, the step totals are different than the totals presented in Section A, 1-7.</i></p>							

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6. Median Transport Time by Step (1-4) for Trauma Center Level III Only, 2013-2018

Median Transport Time by Step (1-4) for Level III, 2013-2018							
		Year					
		2013	2014	2015	2016	2017	2018
Step 1: Physiological	N	7	10	10	1	5	5
	Median (Minutes)	8m 48s	8m 18s	12m 12s	13m 36s	9m 36s	5m 0s
Step 2: Anatomical	N	7	3	6	2	12	6
	Median (Minutes)	17m 48s	8m 0s	11m 36s	8m 18s	12m 0s	17m 30s
Step 3: Mechanism	N	430	305	342	479	460	535
	Median (Minutes)	14m 30s	14m 0s	14m 12s	14m 24s	14m 12s	15m 12s
Step 4: Special Considerations	N	8	7	29	100	206	255
	Median (Minutes)	14m 30s	19m 0s	14m 48s	14m 30s	13m 30s	13m 0s
<i>Source: SNHD TFC Data</i>							
<i>Note: Includes TFC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds. Since the step totals only include transport times greater than 0 seconds, the step totals are different than the totals presented in Section A, 1-7.</i>							

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



7. Clark County Median Transport Time: Step 1-4, 2013-2018

Clark County Median Transport Time by Step (1-4), 2013-2018							
		Year					
		2013	2014	2015	2016	2017	2018
Step 1: Physiological	N	463	511	502	382	416	385
	Median (Minutes)	13m 12s	13m 12s	12m 54s	12m 48s	13m 0s	12m 48s
Step 2: Anatomical	N	540	530	525	629	631	668
	Median (Minutes)	14m 0s	12m 54s	12m 24s	13m 0s	14m 36s	13m 12s
Step 3: Mechanism	N	3474	3282	3331	3494	3986	4093
	Median (Minutes)	15m 24s	15m 24s	15m 48s	16m 12s	16m 24s	16m 48s
Step 4: Special Considerations	N	307	601	697	935	4370	4840
	Median (Minutes)	15m 36s	14m 36s	15m 36s	16m 24s	16m 24s	16m 48s
All	N	4784	4924	5055	5440	9403	9988
	Median (Minutes)	15m 0s	14m 48s	15m 0s	15m 36s	16m 0s	16m 24s
<i>Source: SNHD TFTC Data</i>							
<p><i>Note: Data not listed if out of state or if zip code is unavailable. Service area for Clark County includes the following zip codes where the injury took place: 89002, 89004, 89005, 89007, 89011, 89012, 89014, 89015, 89018, 89019, 89021, 89027, 89029, 89030, 89031, 89032, 89034, 89039, 89040, 89044, 89046, 89052, 89054, 89074, 89081, 89084, 89085, 89086, 89101, 89102, 89103, 89104, 89106, 89107, 89108, 89110, 89113, 89115, 89117, 89118, 89120, 89121, 89122, 89123, 89124, 89128, 89129, 89130, 89131, 89134, 89135, 89138, 89139, 89141, 89142, 89143, 89144, 89145, 89146, 89147, 89148, 89149, 89156, 89161, 89166, 89178, 89179, and 89183. Includes TFTC transports with a transport time greater than 0 seconds. Includes 2 unclassified steps in 2018. Data were run on 8/21/19.</i></p>							

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

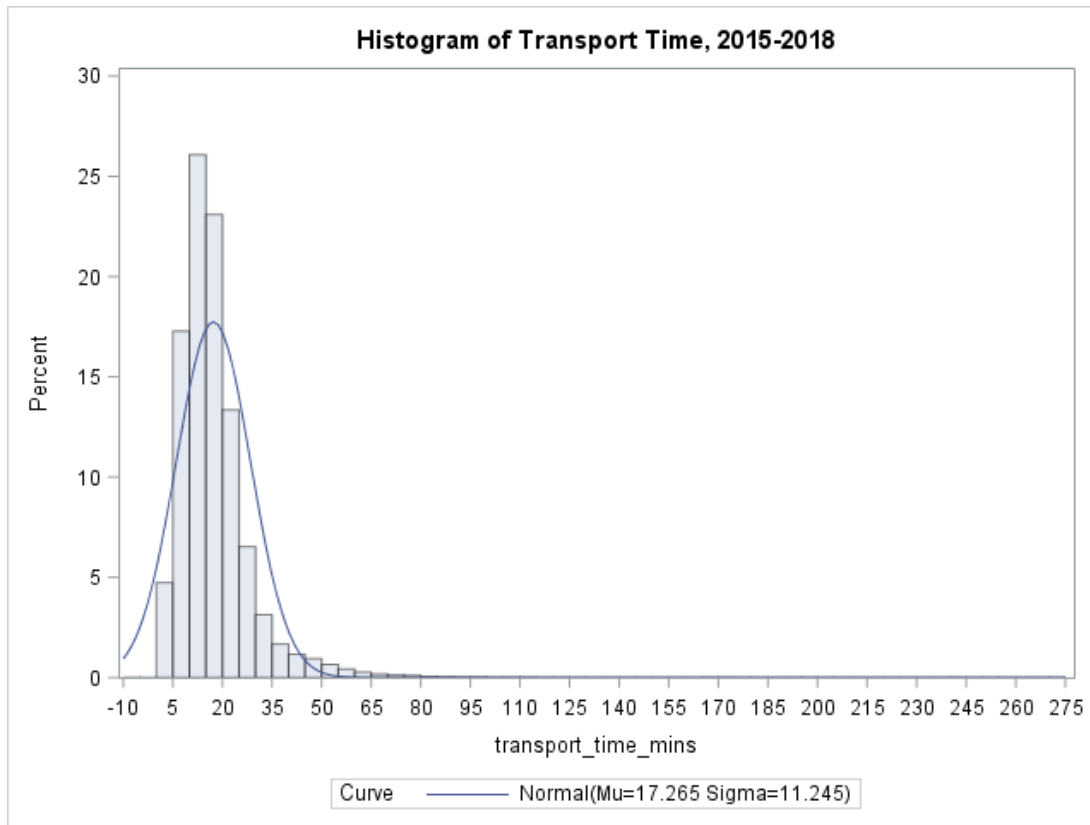
8. Clark County Median Transport Time: Step 3-4, 2013-2018

Clark County Median Transport Time by Step (3-4), 2013-2018							
		Year					
		2013	2014	2015	2016	2017	2018
Step 3: Mechanism	N	3474	3282	3331	3494	3986	4093
	Median (Minutes)	15m 24s	15m 24s	15m 48s	16m 12s	16m 24s	16m 48s
Step 4: Special Considerations	N	307	601	697	935	4370	4840
	Median (Minutes)	15m 36s	14m 36s	15m 36s	16m 24s	16m 24s	16m 48s
All	N	3781	3883	4028	4429	8356	8933
	Median (Minutes)	15m 24s	15m 24s	15m 42s	16m 12s	16m 24s	16m 48s
<i>Source: SNHD TFC Data</i>							
<p><i>Note: Data not listed if out of state or if zip code is unavailable. Service area for Clark County includes the following zip codes where the injury took place: 89002, 89004, 89005, 89007, 89011, 89012, 89014, 89015, 89018, 89019, 89021, 89027, 89029, 89030, 89031, 89032, 89034, 89039, 89040, 89044, 89046, 89052, 89054, 89074, 89081, 89084, 89085, 89086, 89101, 89102, 89103, 89104, 89106, 89107, 89108, 89110, 89113, 89115, 89117, 89118, 89120, 89121, 89122, 89123, 89124, 89128, 89129, 89130, 89131, 89134, 89135, 89138, 89139, 89141, 89142, 89143, 89144, 89145, 89146, 89147, 89148, 89149, 89156, 89161, 89166, 89178, 89179, and 89183. Includes TFC transports with a transport time greater than 0 seconds. Data were run on 8/21/19; therefore, counts are higher than most of the report. Data were run on 8/21/19.</i></p>							

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



9. Histogram of Transport Time, 2015-2018



Histogram of Transport Time, 2015-2018					
	Year				
	2015	2016	2017	2018	2015-2018
25th Percentile Transport Time (Minutes)	10m 12s	10m 12s	11m 12s	11m 12s	10m 48s
50th Percentile Transport Time (Minutes)	14m 36s	14m 48s	15m 48s	16m 0s	15m 24s
75th Percentile Transport Time (Minutes)	20m 12s	20m 36s	21m 24s	21m 48s	21m 12s
Quartile Range Transport Time (Minutes)	10m 0s	10m 24s	10m 12s	10m 36s	10m 24s
<i>Source: SNHD TFTC Data</i>					
<i>Note: Includes all TFTC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds.</i>					

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10. TFTC Incidents by Transport Time and Step, 2015-2018

TFTC Incidents by Transport Time and Step, 2015-2018				
	2015	2016	2017	2018
>15 Minutes				
Step 1	189	151	187	158
Step 2	204	259	328	271
Step 3	1951	2147	2474	2633
Step 4	405	581	2710	3206
>20 Minutes				
Step 1	93	81	98	78
Step 2	98	128	159	142
Step 3	1044	1178	1419	1536
Step 4	225	313	1508	1836
>25 Minutes				
Step 1	59	46	69	43
Step 2	56	75	85	82
Step 3	584	651	781	811
Step 4	114	172	798	966
<i>Source: SNHD TFTC Data</i>				
<i>Note: Includes all TFTC transports in the Southern Nevada Trauma System.</i>				

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



11. Percentage of TFTC Incidents with Transport Time <=15 Minutes

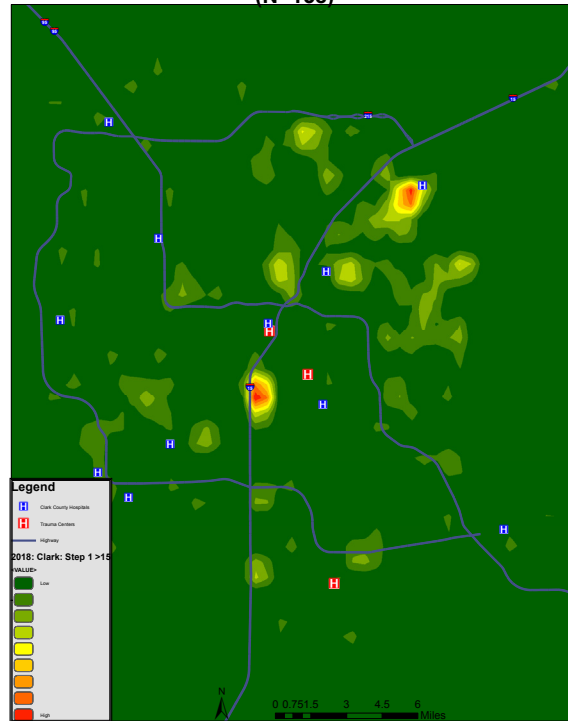
Percentage of TFTC Incidents With Transport Time <=15 Minutes				
	Step 1	Step 2	Step 3	Step 4
2015				
N	408	396	1760	405
Total	600	606	3727	815
%	68	65.35	47.22	49.69
2016				
N	334	499	1906	513
Total	489	762	4072	1101
%	68.30	65.49	46.81	46.59
2017				
N	285	450	2035	2160
Total	475	784	4531	4886
%	60	57.40	44.91	44.21
2018				
N	272	480	2021	2359
Total	433	758	4682	5588
%	62.82	63.32	43.17	42.22
Source: SNHD TFTC Data				
Note: Includes all TFTC transports in the Southern Nevada Trauma System with a transport time greater than 0 seconds. Missing 2 frequencies.				



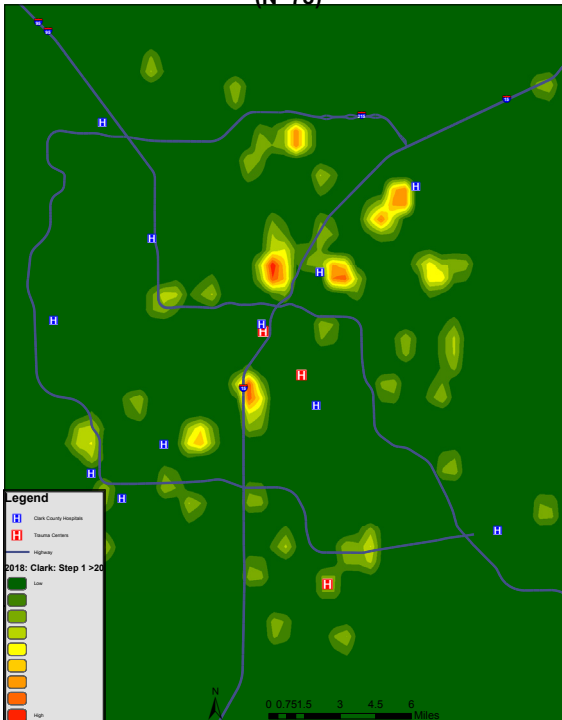
2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

12. Transport Heat Maps

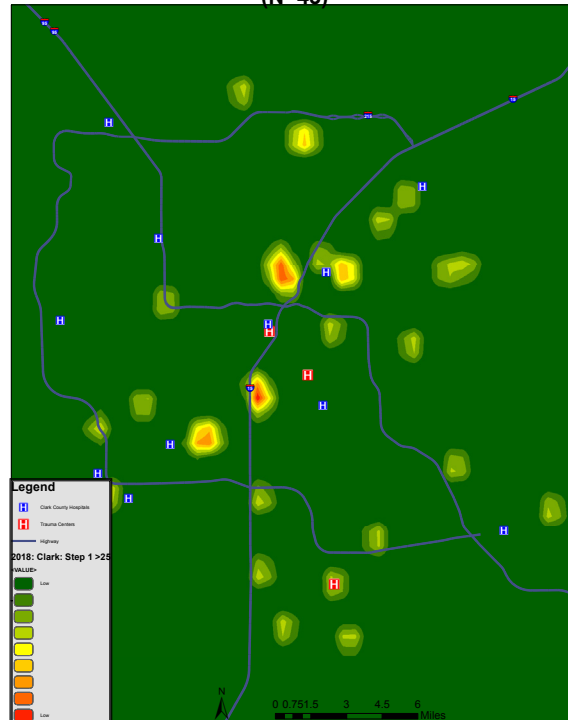
2018: Clark: Step 1 >15
(N=158)



2018: Clark: Step 1 >20
(N=78)



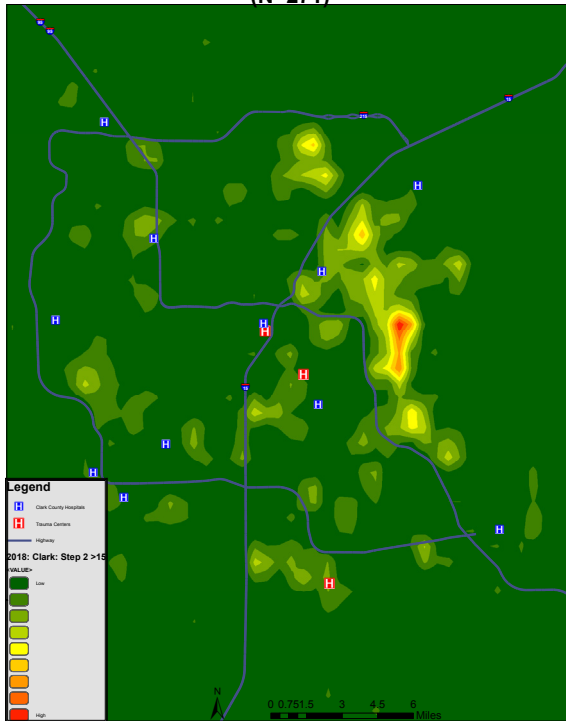
2018: Clark: Step 1 >25
(N=43)



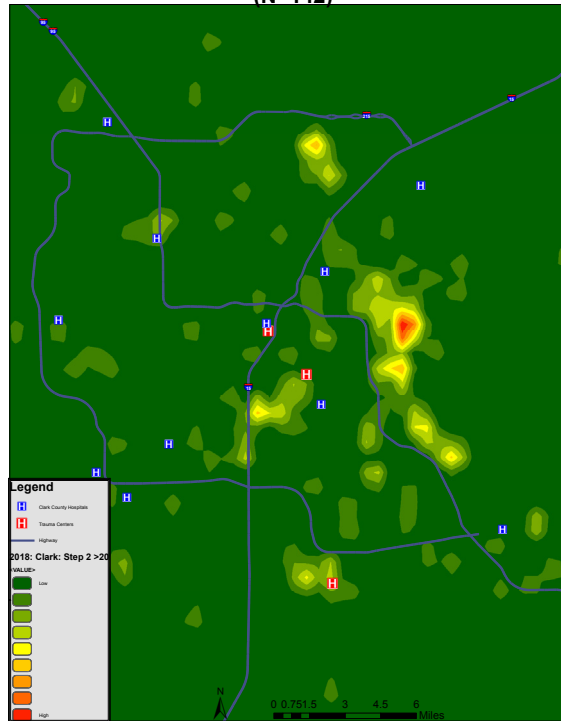
2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



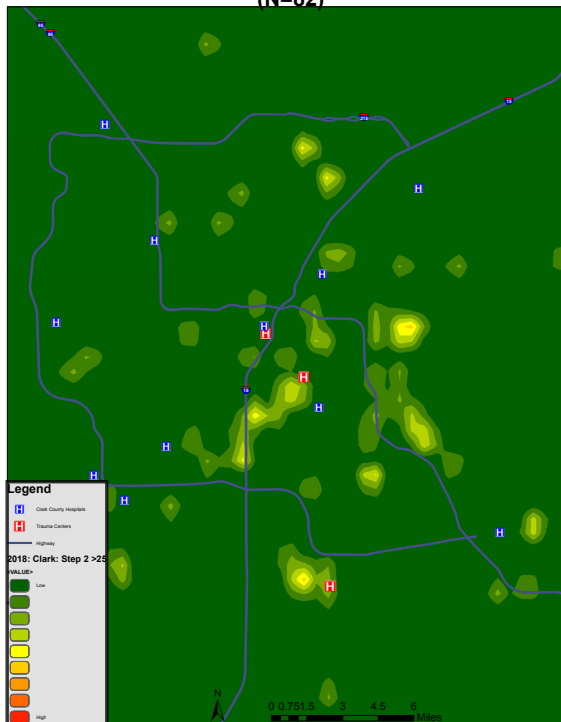
2018: Clark: Step 2 >15
(N=271)



2018: Clark: Step 2 >20
(N=142)

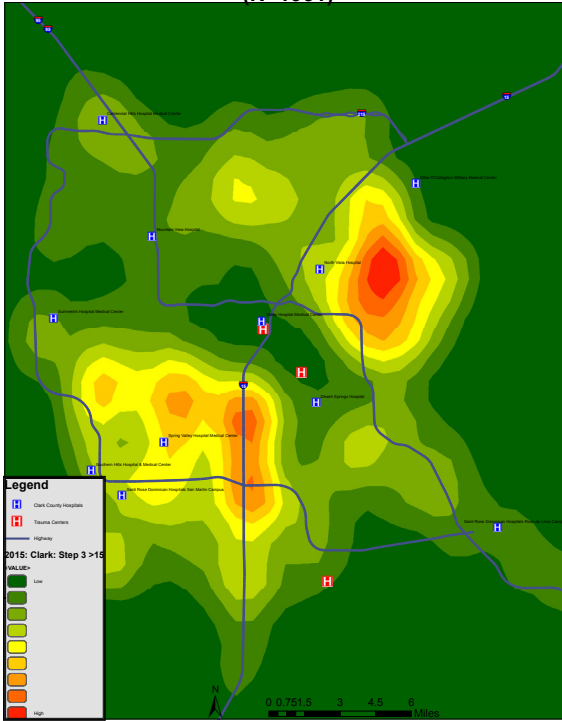


2018: Clark: Step 2 >25
(N=82)

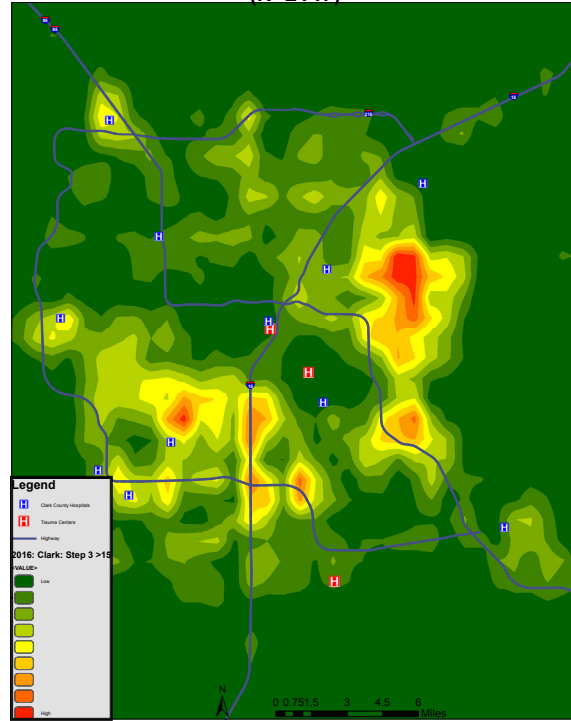


2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

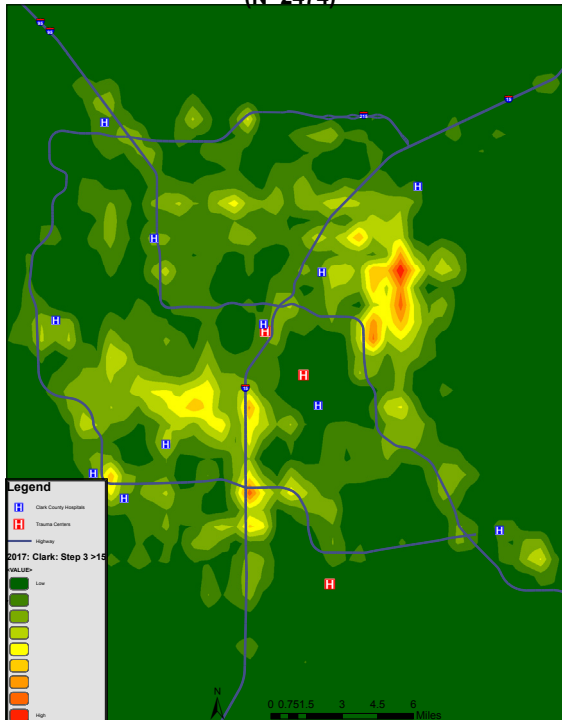
2015: Clark: Step 3 >15
(N=1951)



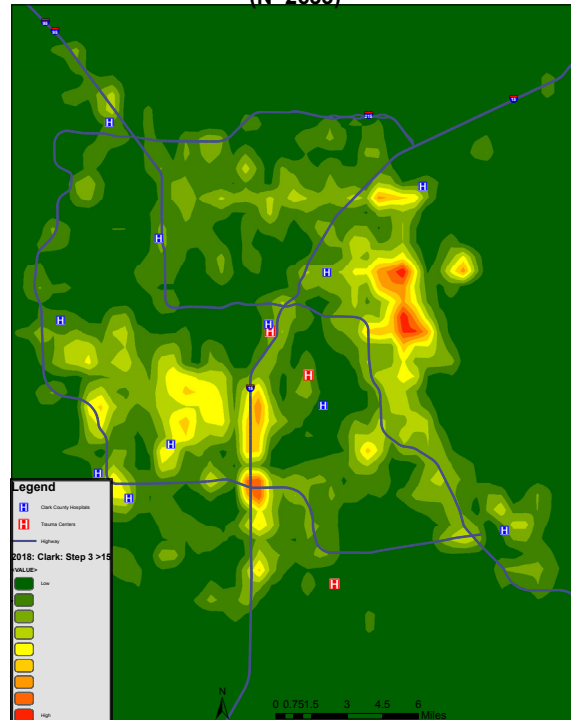
2016: Clark: Step 3 >15
(N=2147)



2017: Clark: Step 3 >15
(N=2474)



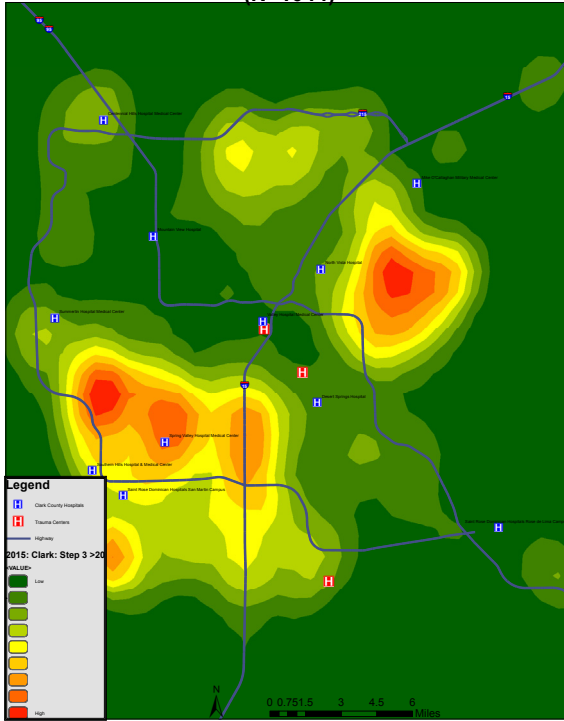
2018: Clark: Step 3 >15
(N=2633)



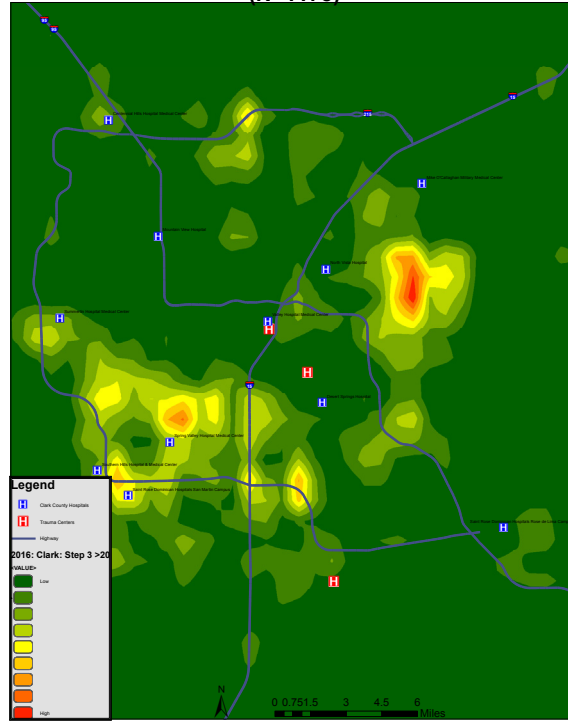
2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



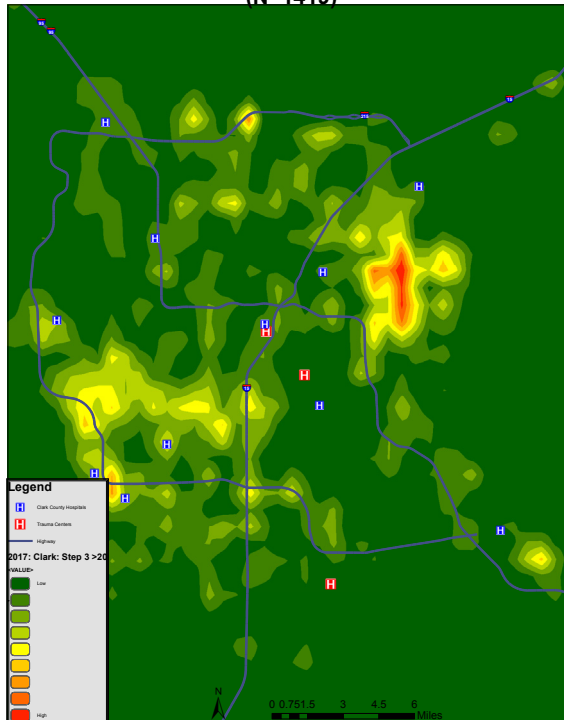
2015: Clark: Step 3 >20
(N=1044)



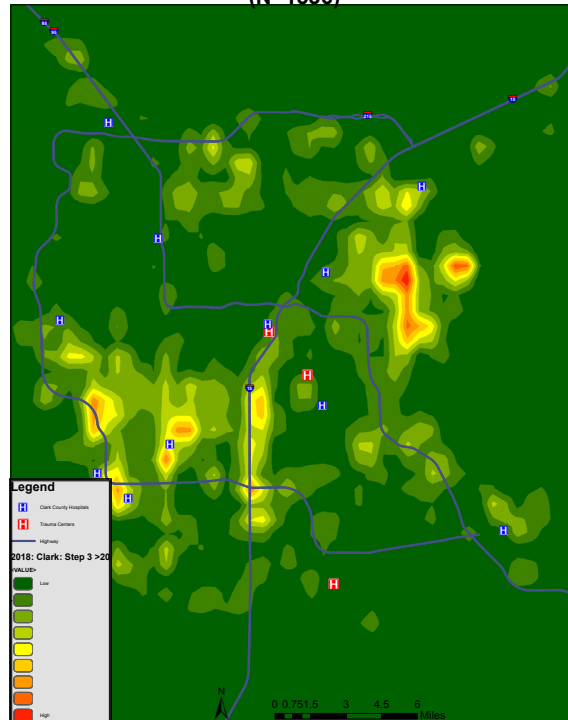
2016: Clark: Step 3 >20
(N=1178)



2017: Clark: Step 3 >20
(N=1419)



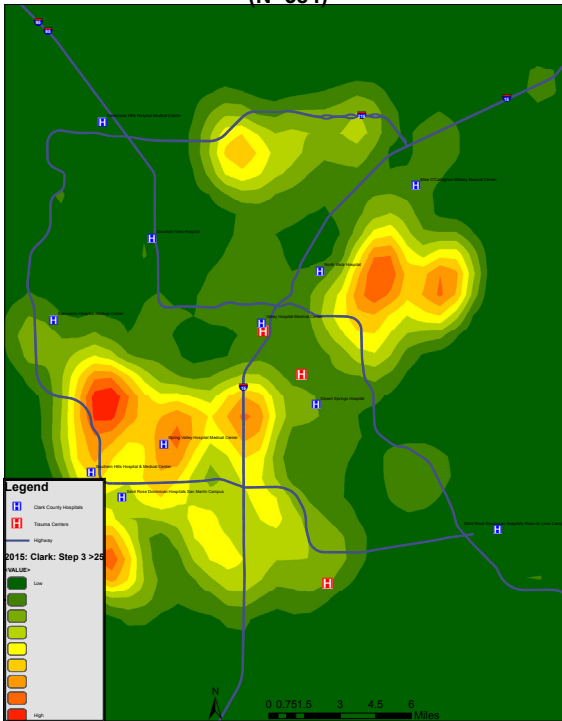
2018: Clark: Step 3 >20
(N=1536)



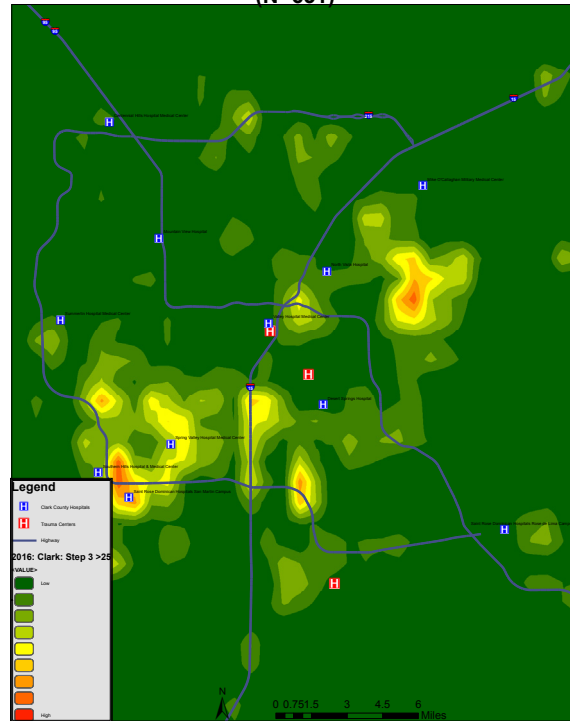


2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

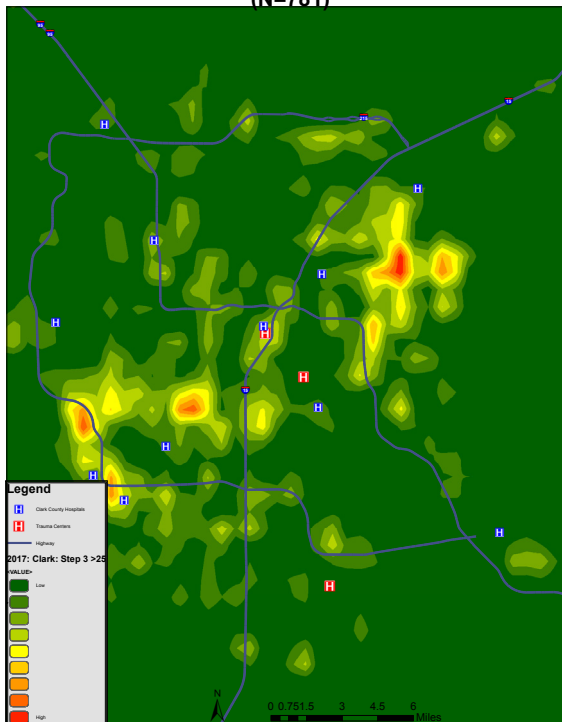
2015: Clark: Step 3 >25
(N=584)



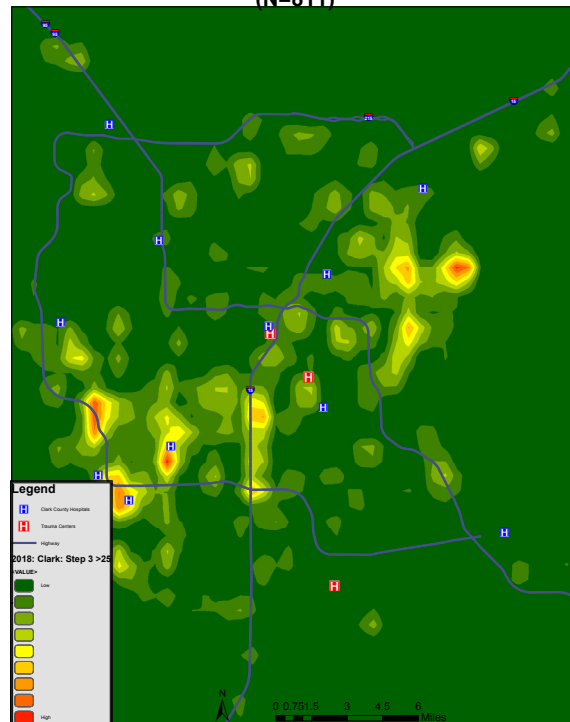
2016: Clark: Step 3 >25
(N=651)



2017: Clark: Step 3 >25
(N=781)



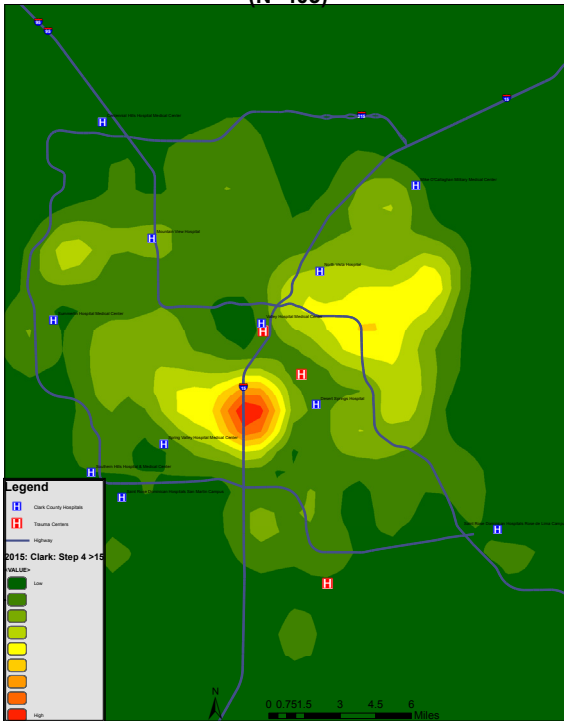
2018: Clark: Step 3 >25
(N=811)



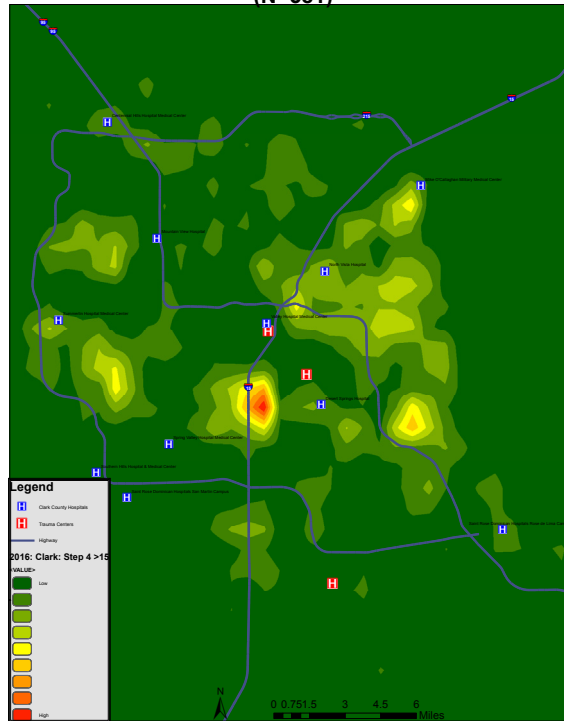
2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



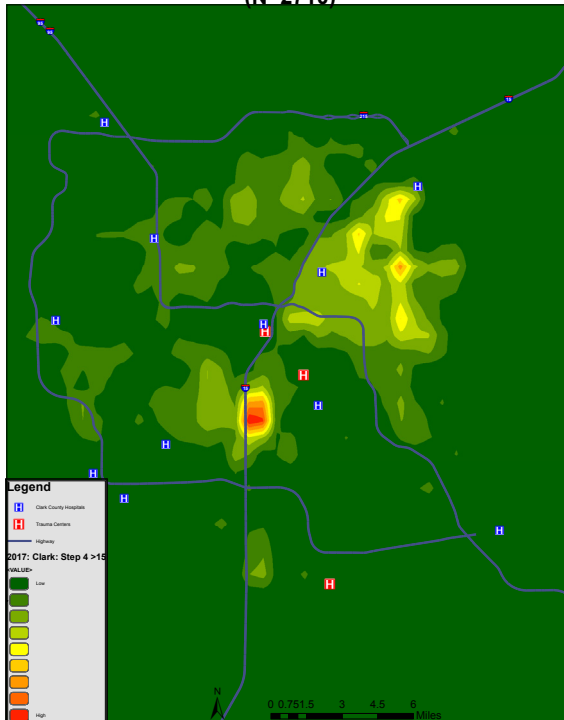
2015: Clark: Step 4 >15
(N=405)



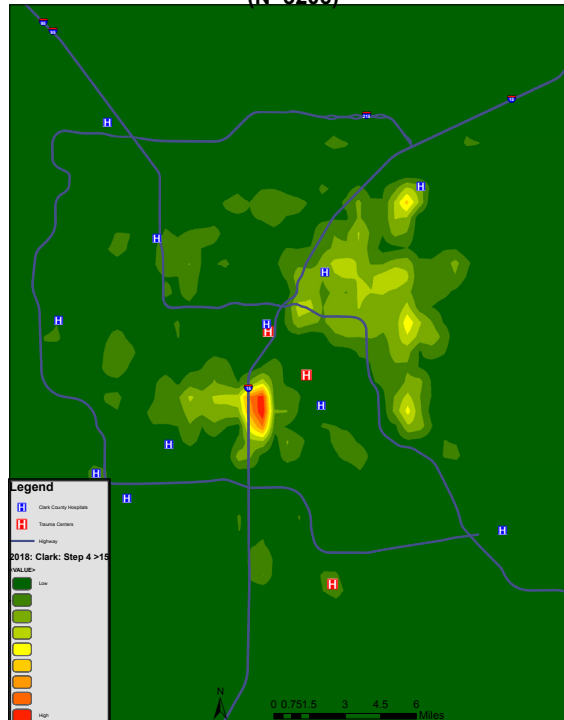
2016: Clark: Step 4 >15
(N=581)



2017: Clark: Step 4 >15
(N=2710)

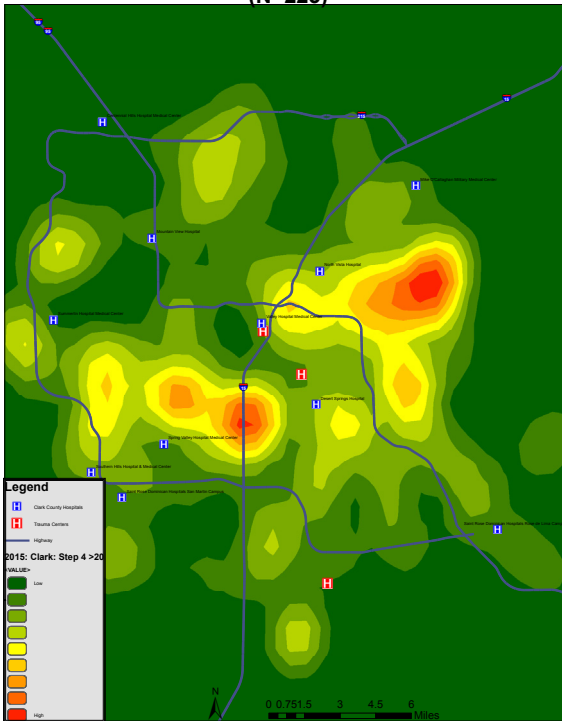


2018: Clark: Step 4 >15
(N=3206)

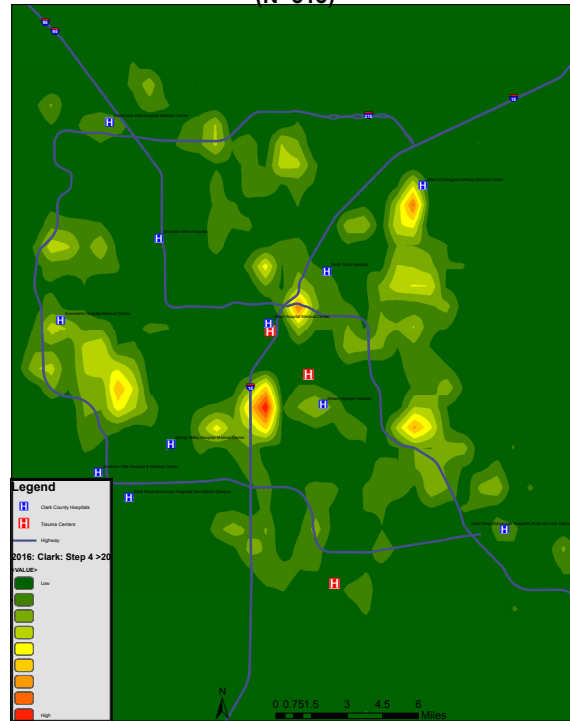


2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

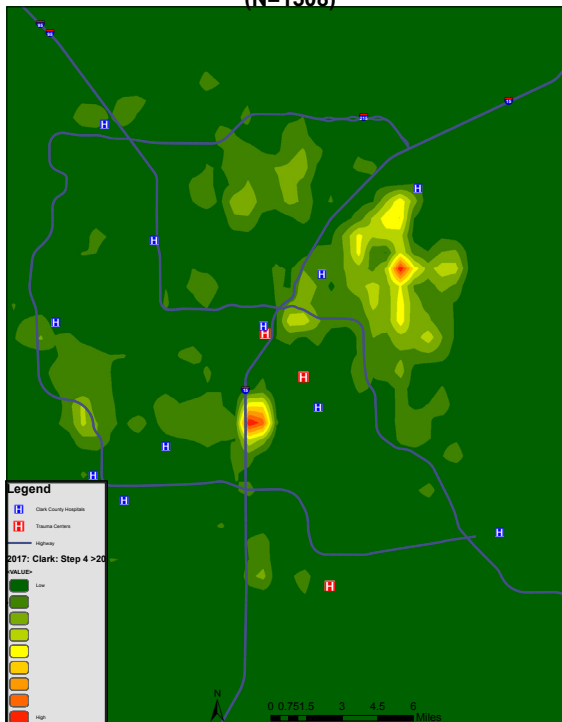
2015: Clark: Step 4 >20
(N=225)



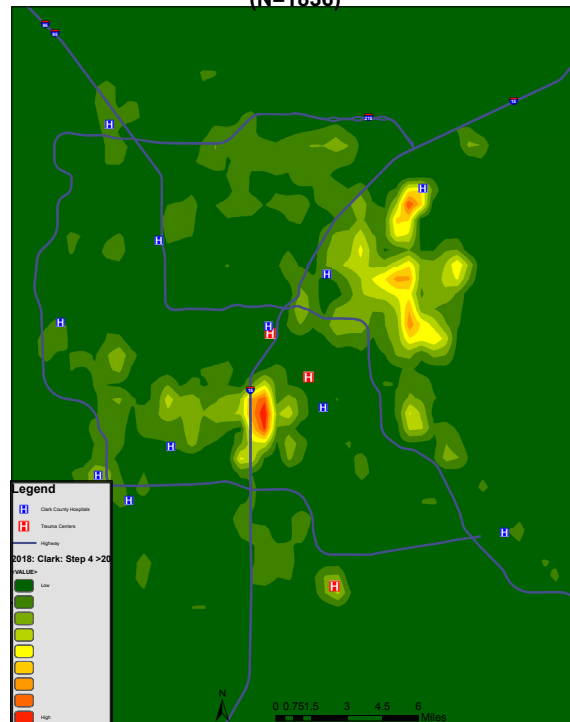
2016: Clark: Step 4 >20
(N=313)



2017: Clark: Step 4 >20
(N=1508)



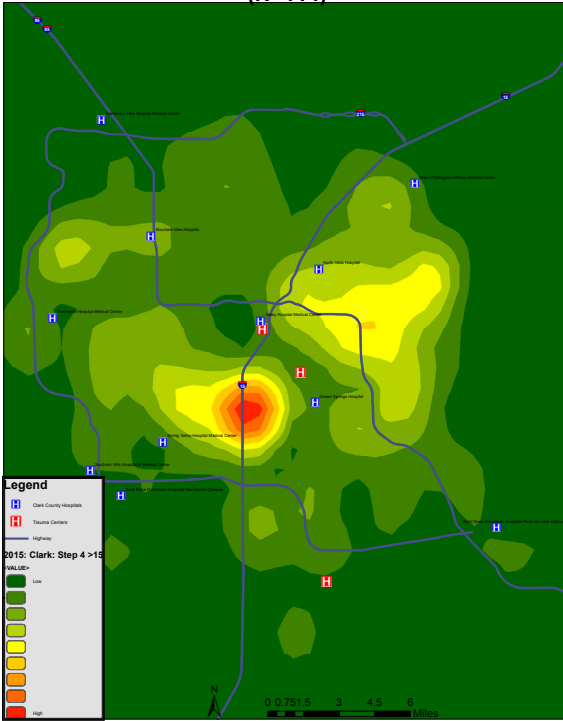
2018: Clark: Step 4 >20
(N=1836)



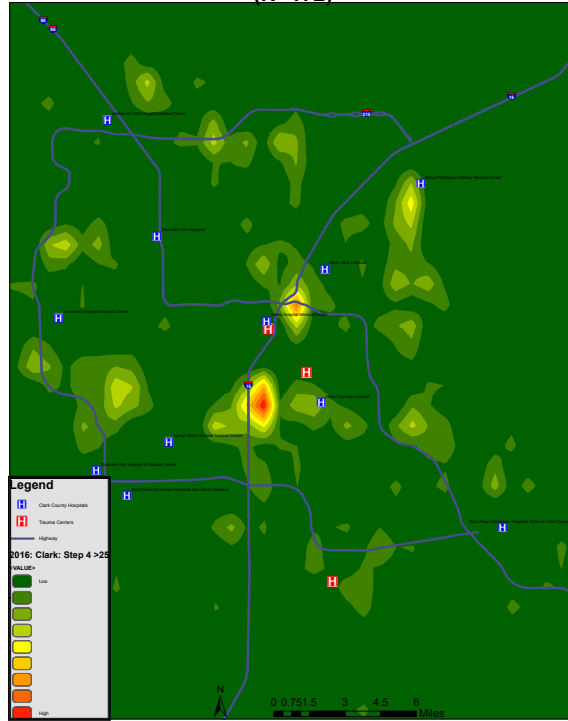
2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



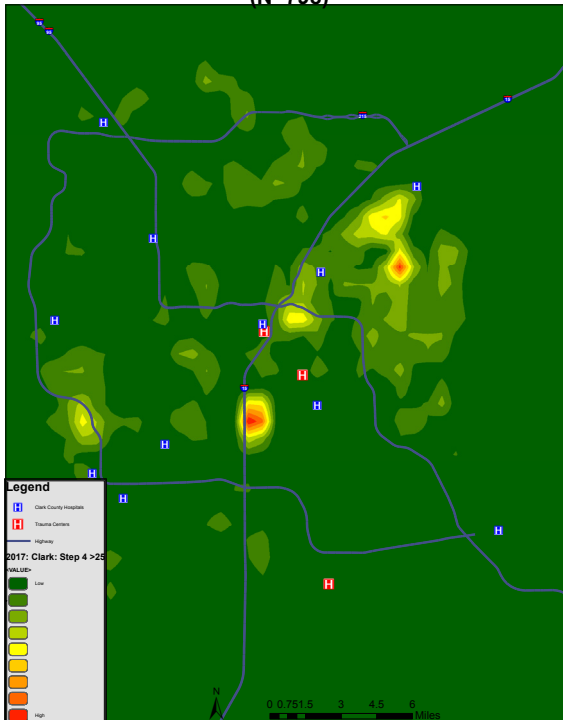
2015: Clark: Step 4 >25
(N=114)



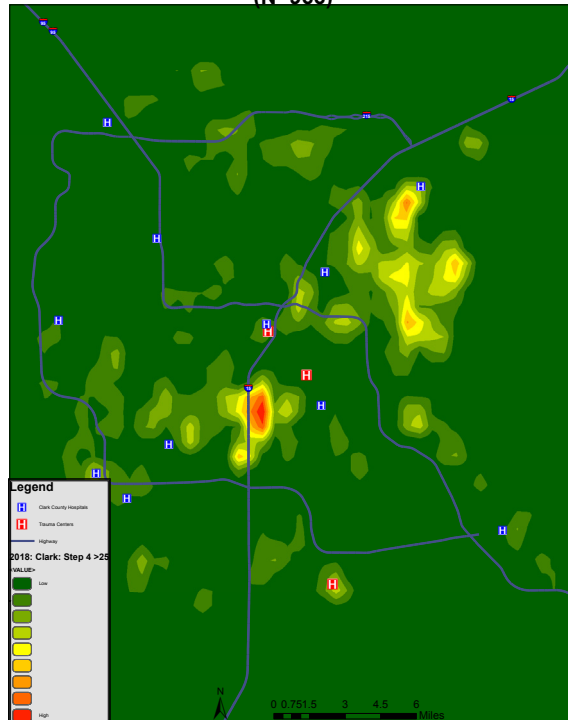
2016: Clark: Step 4 >25
(N=172)



2017: Clark: Step 4 >25
(N=798)



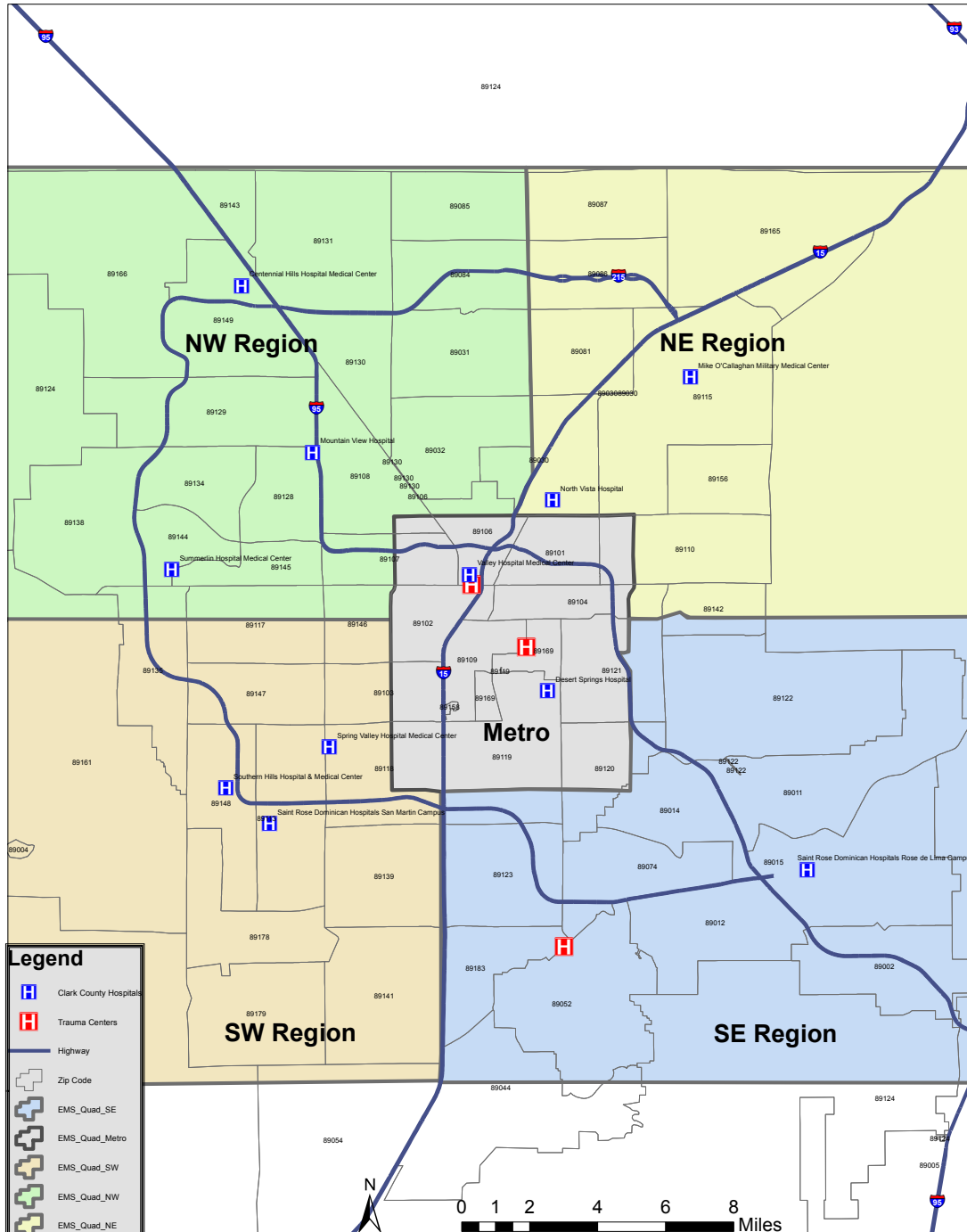
2018: Clark: Step 4 >25
(N=966)



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C. TFTC Regional Incidents

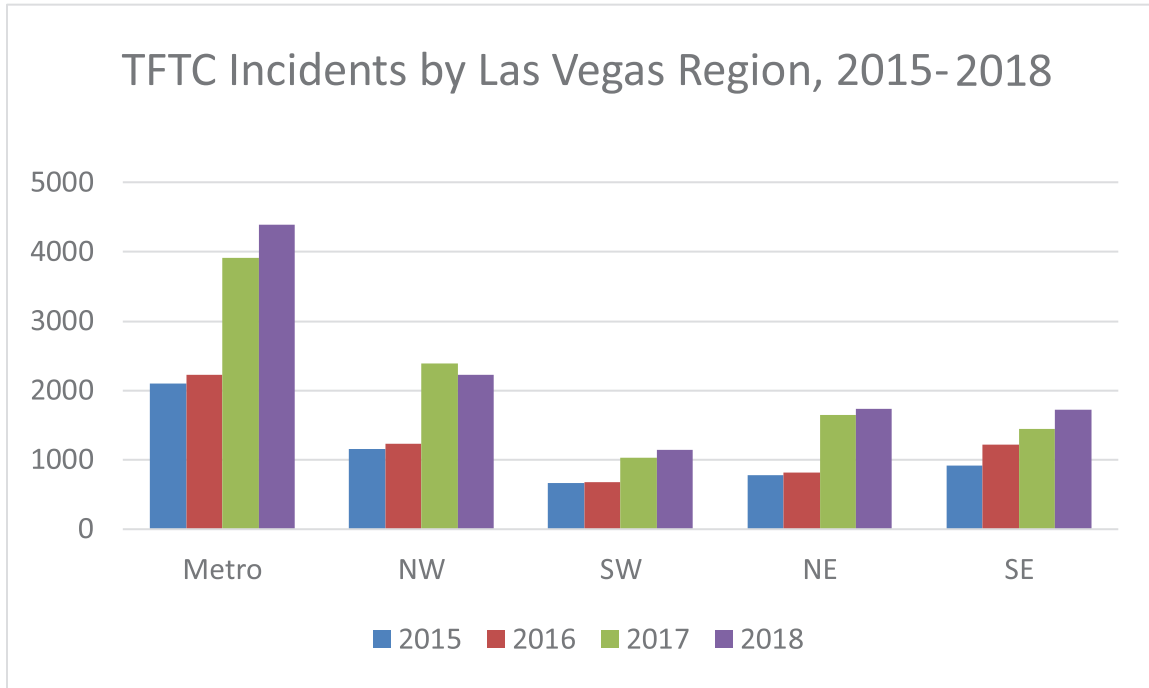
1. TFTC Regional Map



2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



2. TFTC Incident Total by Las Vegas Region, 2015-2018



TFTC Incidents by Las Vegas Region, 2015-2018				
	2015	2016	2017	2018
Metro	2105	2224	3918	4398
NW	1149	1235	2392	2224
SW	662	681	1030	1140
NE	772	821	1649	1729
SE	912	1216	1448	1724
Total	5600	6177	10437	11215

Source: SNHD TFTC Data

2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW

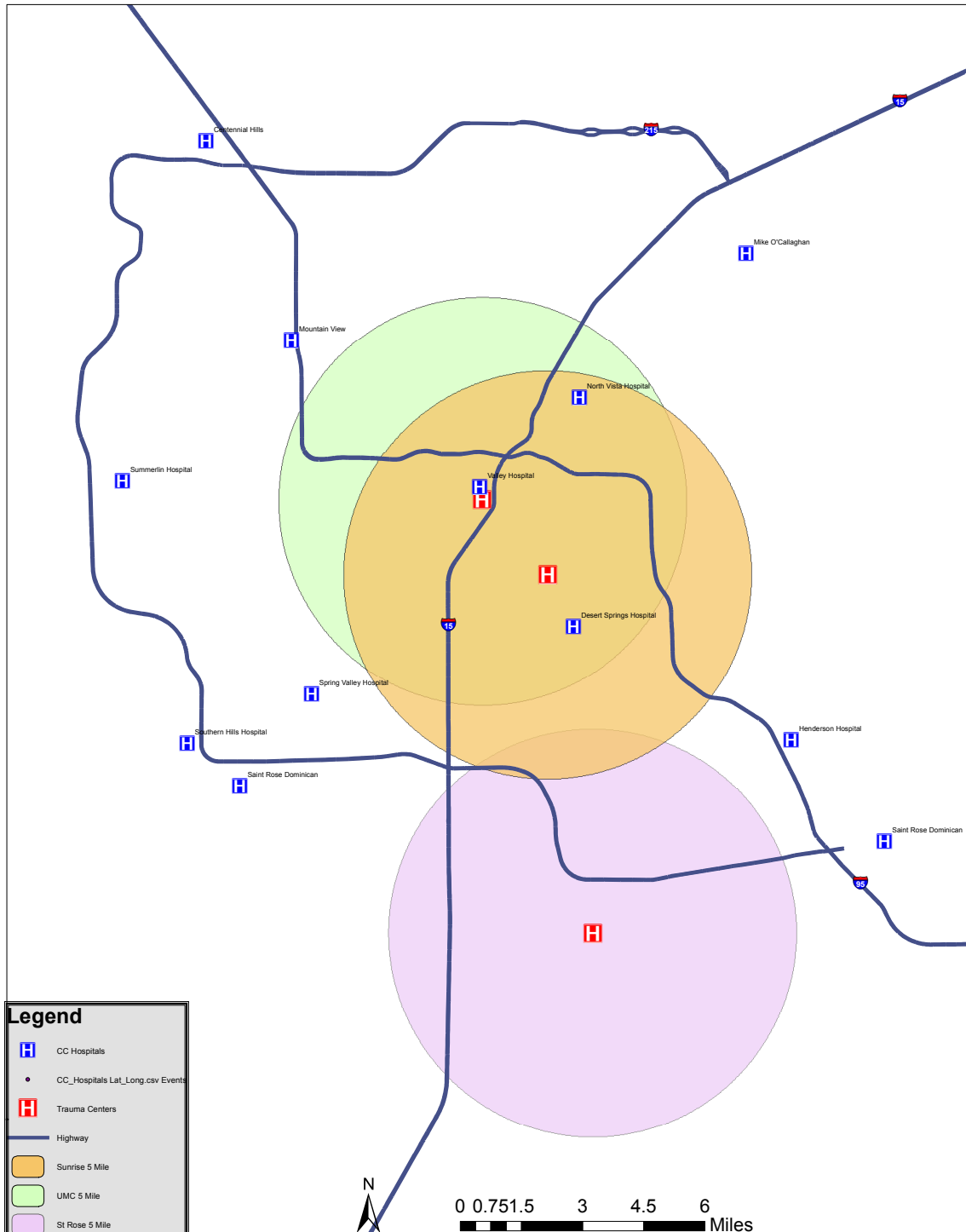
3. TFTC Incidents by Las Vegas Region and Step, 2015-2018

TFTC Incidents by Las Vegas Region and Step, 2015-2018				
	2015	2016	2017	2018
Step 1				
Metro	256	212	181	171
NW	110	92	117	93
SW	56	48	57	41
NE	73	47	67	84
SE	95	79	56	44
Step 2				
Metro	237	333	337	305
NW	128	129	136	133
SW	34	56	62	53
NE	121	124	119	133
SE	85	113	119	123
Step 3				
Metro	1218	1249	1414	1515
NW	736	779	954	880
SW	516	506	542	578
NE	495	517	606	615
SE	620	808	804	885
Step 4				
Metro	394	430	1986	2406
NW	175	235	1185	1118
SW	56	71	369	468
NE	83	133	857	895
SE	112	216	469	672
<i>Source: SNHD TFTC Data</i>				
<i>Note: 2018 Metro is missing 1 incident and 2018 NE is missing 2 incidents due to classification</i>				

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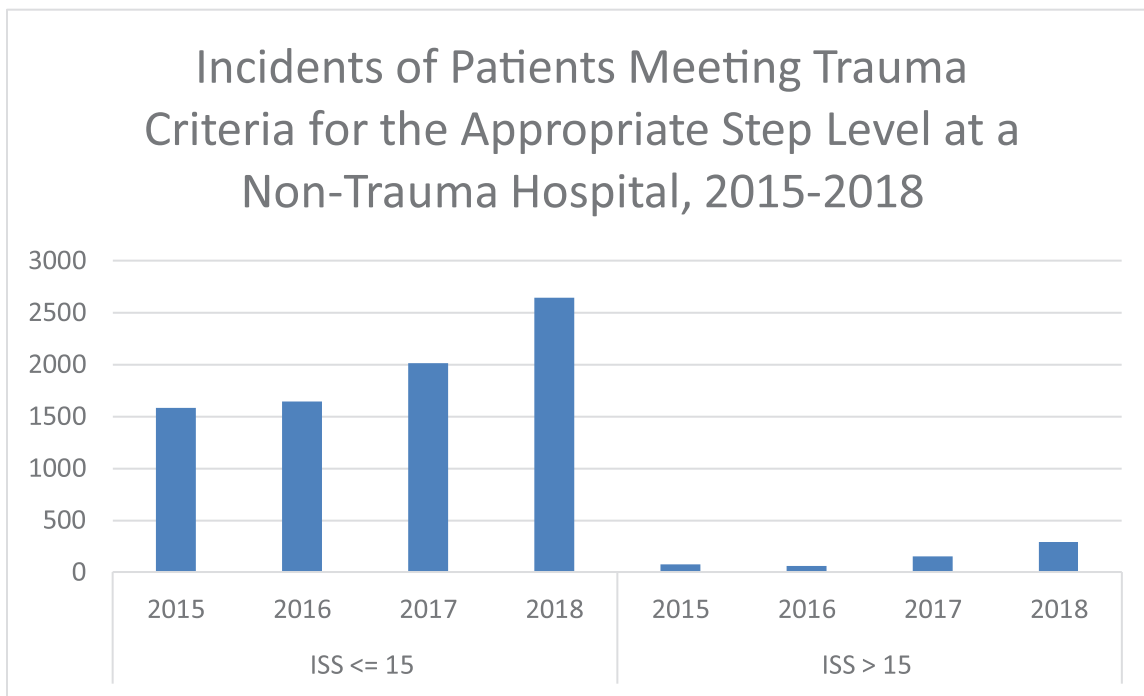


D. Trauma Centers 5-Mile Radius



IV. State Trauma Registry

A. Incidents of Patients Meeting Trauma Criteria for the Appropriate Step Level Increasing at a Non-Trauma Hospital



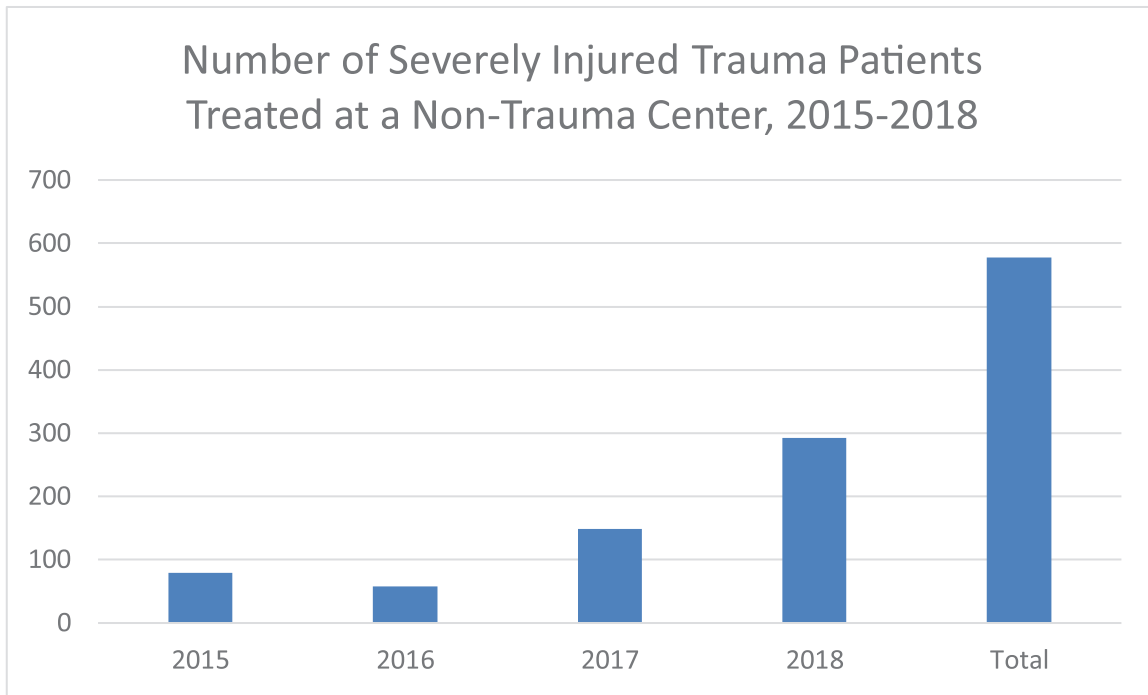
Incidents of Patients Meeting Trauma Criteria for the Appropriate Step Level at a Non-Trauma Hospital, 2015-2018

	ISS <= 15				ISS > 15			
	2015	2016	2017	2018	2015	2016	2017	2018
All	1580	1644	2016	2645	79	57	149	293
<i>Source: State Trauma Registry data</i>								

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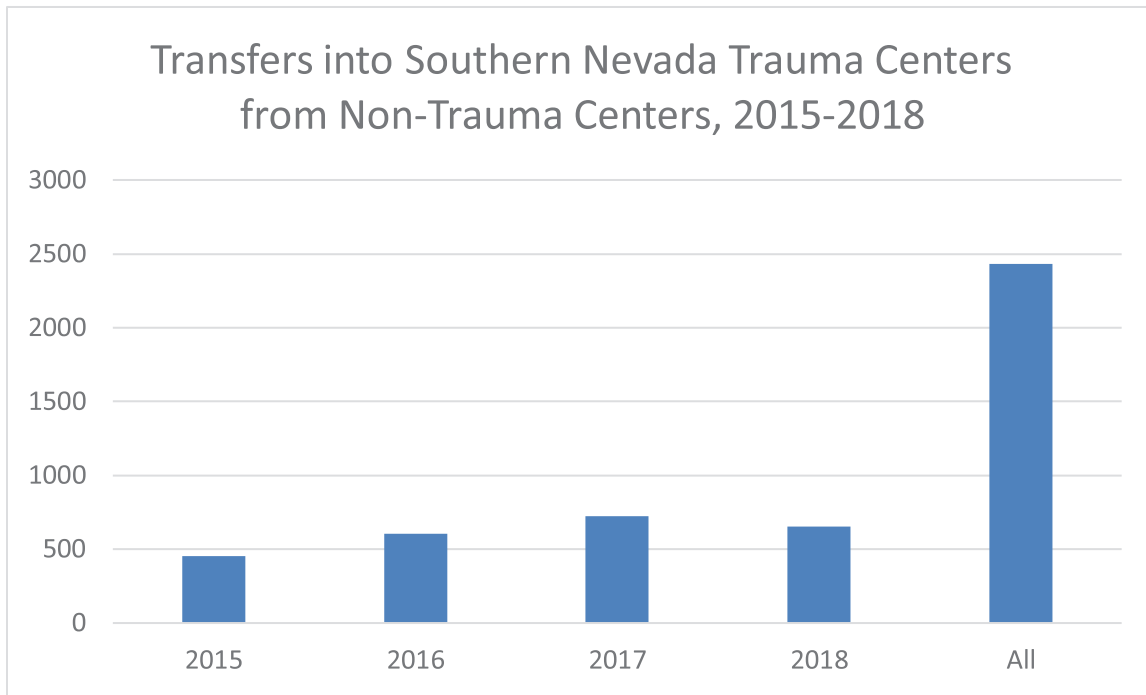


B. Number of Severely Injured Trauma Patients Treated at a Non-Trauma Center, 2015-2018



Number of Severely Injured Trauma Patients Treated at a Non-Trauma Center, 2015-2018					
	2015	2016	2017	2018	Total
All	79	57	149	293	578
<i>Source: State Trauma Registry data</i>					

C. Transfers into Southern Nevada Trauma Centers from Non-Trauma Centers, 2015-2018



Transfers into Southern Nevada Trauma Centers from Non-Trauma Centers, 2015-2018					
	2015	2016	2017	2018	All
All	452	605	721	654	2432
<i>Source: State Trauma Registry data</i>					

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D. Trauma Registry Patients Living Outside of Clark County, NV, 2014-2018

Trauma Registry Patients Living Outside of Clark County, NV, 2014-2018					
2014	2015	2016	2017	2018	Total
148	296	1046	1347	1514	4351
<i>Source: State Trauma Registry data</i>					
<p><i>Note: Patient residence zip codes outside of Clark County, NV were totaled to generate this frequency. Unknown zip codes and zip codes fields with "n/a" were excluded in this calculation. Clark County includes the following zip codes: 89002, 89004, 89005, 89007, 89011, 89012, 89014, 89015, 89018, 89019, 89021, 89027, 89029, 89030, 89031, 89032, 89034, 89039, 89040, 89044, 89046, 89052, 89054, 89074, 89081, 89084, 89085, 89086, 89101, 89102, 89103, 89104, 89106, 89107, 89108, 89110, 89113, 89115, 89117, 89118, 89120, 89121, 89122, 89123, 89124, 89128, 89129, 89130, 89131, 89134, 89135, 89138, 89139, 89141, 89142, 89143, 89144, 89145, 89146, 89147, 89148, 89149, 89156, 89161, 89166, 89178, 89179, and 89183.</i></p>					

V. RTAB Sub-committee Reports

A. Trauma Medical Audit Committee

The Trauma Medical Audit Committee (TMAC) is a multidisciplinary closed medical review committee of the District Board of Health that meets regularly as a peer review committee. Its purpose is to review and evaluate trauma care in the system, monitor trends in system performance, and make recommendations for system improvements.

- For 2018, TMAC has reviewed trauma cases as an evaluation of trauma care. In a review of those cases, TMAC has not found any significant variance of trauma protocols or regulations.
- For 2018, TMAC has not identified any significant change in trends in system performance.
- For 2018, TMAC did not observe any aberrations in out-of-hospital deaths, patients treated in non-trauma center hospitals, or prehospital services.
- For 2019, TMAC recommends a review of the current Southern Nevada Trauma System Plan and update if deemed necessary.

As part of the TMAC's purpose to implement improvement activities to ensure quality care throughout the trauma system, it reports that the current trauma system is functioning efficiently. TMAC recognizes the importance of controlled and appropriate growth of the trauma system for future sustainability.

Dr. Sean Dort

B. Southern Nevada Injury Prevention Partnership

The Southern Nevada Injury Prevention Partnership (SNIPP) was established under the authority of the RTAB for the purpose of advising and assisting RTAB in the structure and development of the injury prevention component for the Southern Nevada Trauma System Plan.

In 2018, SNIPP has conducted the following activities:

- Initiated coordination of injury prevention efforts in Southern Nevada, with an emphasis on those that directly impact the Trauma System and community.
- Reviewed quantitative health and injury assessments to provide evidence-based and specific injury prevention recommendations.
- Facilitated coordination and collaboration of injury prevention efforts within the community.

In 2019, our organization's goals have been to increase collaboration, dissemination and reporting of injury prevention efforts.

SNIPP recognizes the importance of prevention as a legitimate public and governmental service. As part of the SNIPP's purpose to ensure a heightened awareness of injury prevention throughout the trauma system, it reports that the current system is actively engaged in injury prevention.

Jessica Johnson, MPH CHES
SNIPP Chairperson

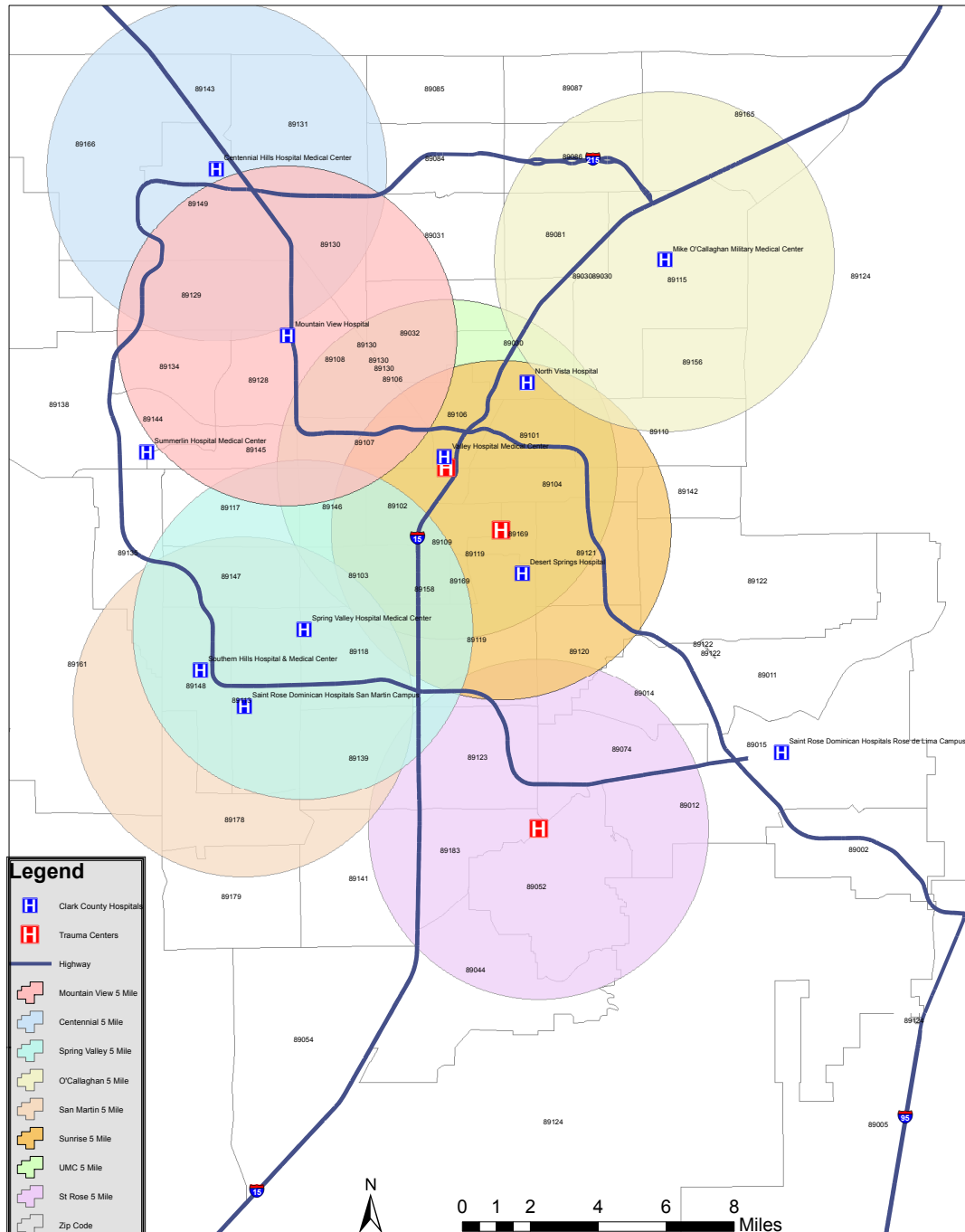
2018 CLARK COUNTY TRAUMA NEEDS ASSESSMENT REVIEW



Appendix – TFTC Incidents Within 5-Mile Hospital Radius

These maps and tables are included per RTAB's request.

1. Trauma Center & 2019 Applicants 5-Mile Radius Map



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2. TFTC Incidents by 5-Mile Hospital Radius, 2015-2018

TFTC Incidents by 5-Mile Hospital Radius, 2015-2018				
	2015	2016	2017	2018
Step 1				
UMC	320	259	246	241
Sunrise	331	258	229	215
St. Rose-Siena	38	34	25	27
San Martin	39	38	39	26
Spring Valley	121	114	127	106
Centennial	23	23	24	12
O'Callaghan	58	38	49	72
Mountain View	77	66	86	60
Step 2				
UMC	344	447	406	410
Sunrise	320	428	410	424
St. Rose-Siena	26	40	39	44
San Martin	22	38	43	39
Spring Valley	102	116	146	97
Centennial	15	25	29	25
O'Callaghan	91	106	93	89
Mountain View	96	97	105	99
Step 3				
UMC	1606	1615	1895	1900
Sunrise	1562	1636	1812	1951
St. Rose-Siena	381	448	455	465
San Martin	360	371	383	367

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TFTC Incidents by 5-Mile Hospital Radius, 2015-2018

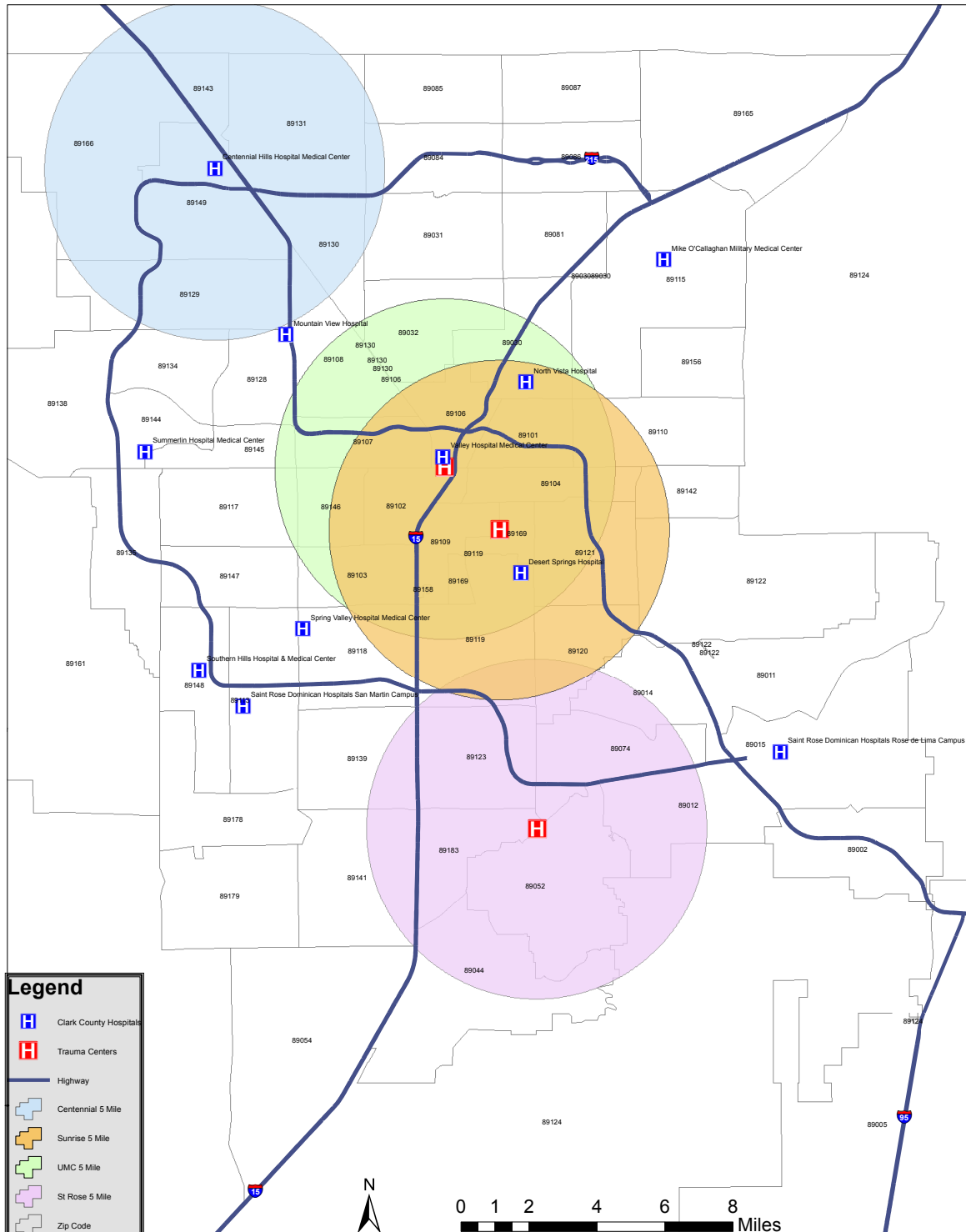
	2015	2016	2017	2018
Spring Valley	887	902	968	954
Centennial	149	159	204	197
O'Callaghan	383	380	467	444
Mountain View	586	567	752	697
Step 4				
UMC	484	542	2733	3085
Sunrise	480	550	2465	3009
St. Rose-Siena	52	111	289	386
San Martin	41	37	222	296
Spring Valley	158	192	930	1111
Centennial	22	56	187	192
O'Callaghan	60	88	653	651
Mountain View	149	177	912	890
All Step				
UMC	2754	2863	5280	5638
Sunrise	2693	2872	4916	5601
St. Rose-Siena	497	633	808	922
San Martin	462	484	687	728
Spring Valley	1268	1324	2171	2269
Centennial	209	263	444	426
O'Callaghan	592	612	1262	1257
Mountain View	908	907	1855	1746

Source: SNHD TFTC Data

Note: 2018 UMC is missing 2 incidents, 2018 Sunrise is missing 2 incidents, 2018 Spring Valley is missing 1 incident, 2018 O'Callaghan is missing 1 incident due to classification.

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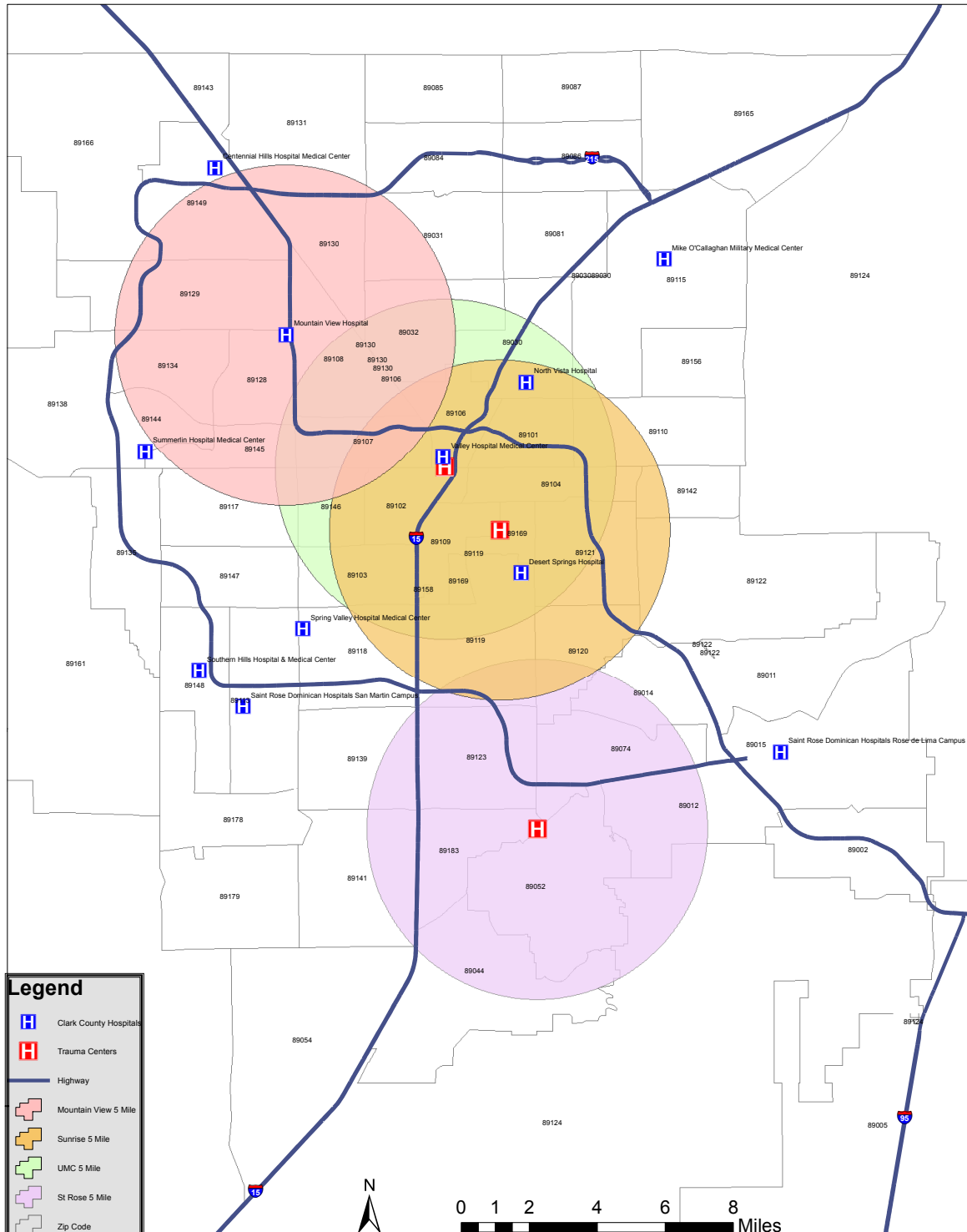
3. Trauma Centers & Centennial 5-Mile Radius Map



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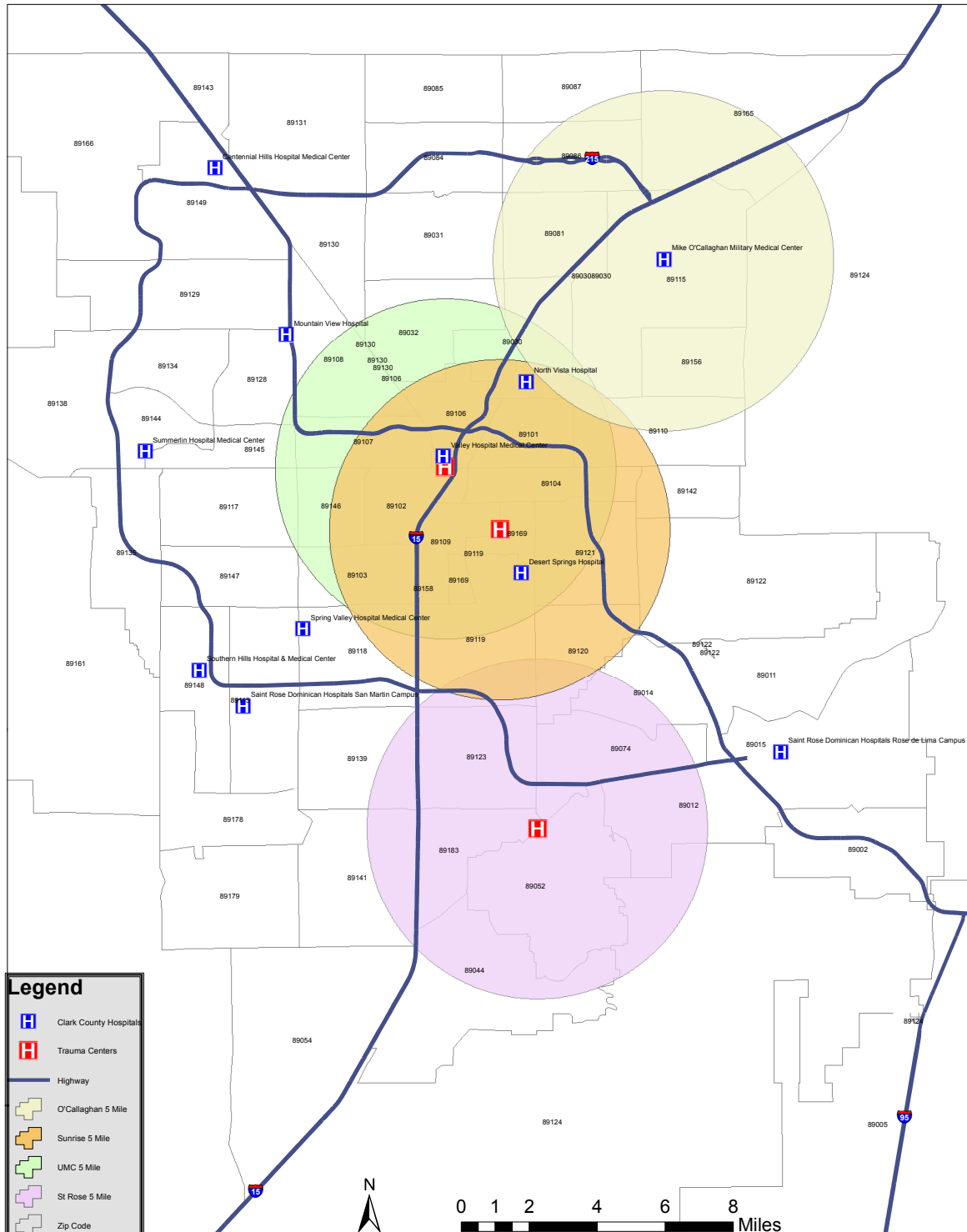
4. Trauma Centers & Mountain View 5-Mile Radius Map





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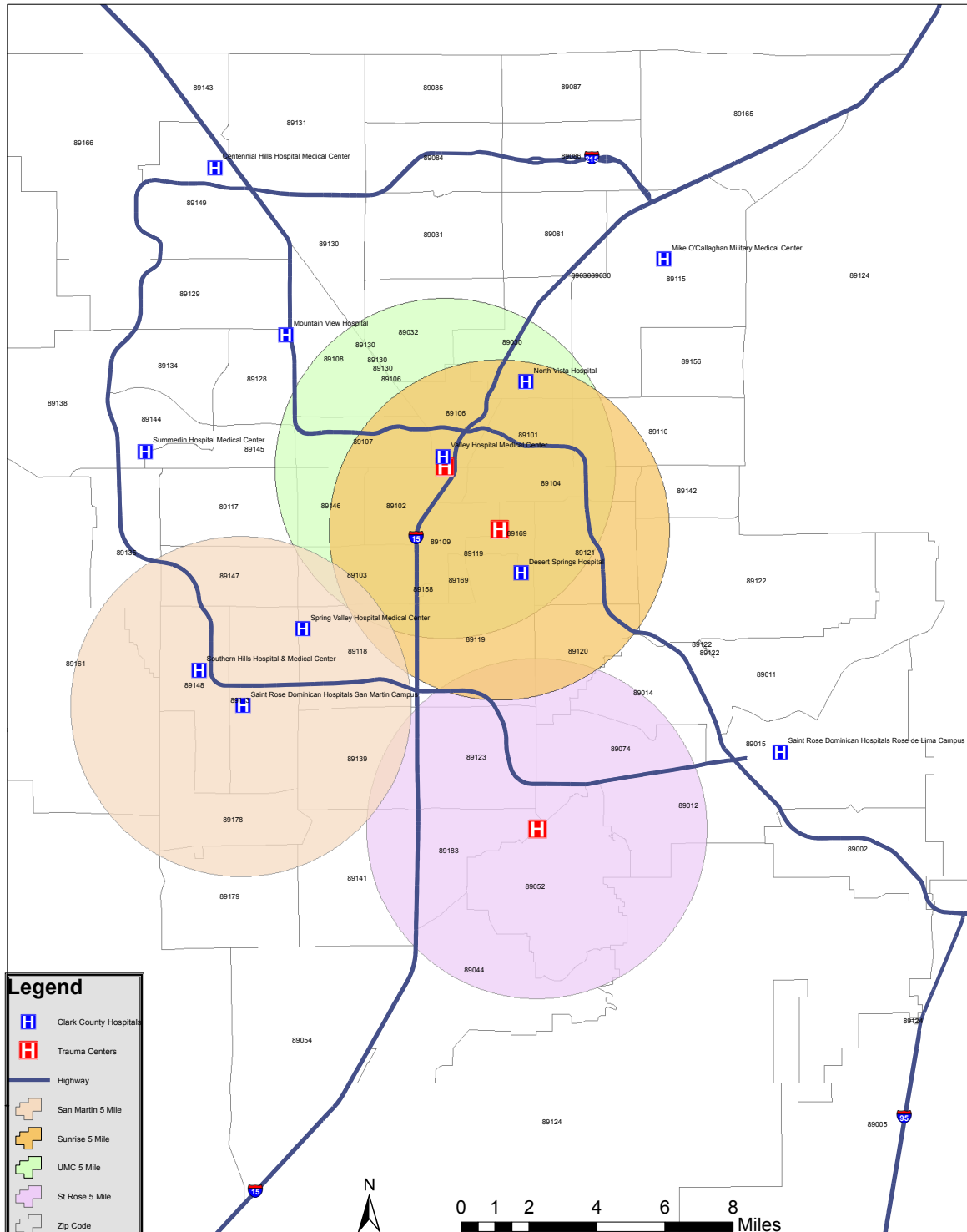
5. Trauma Centers & O'Callaghan 5-Mile Radius Map



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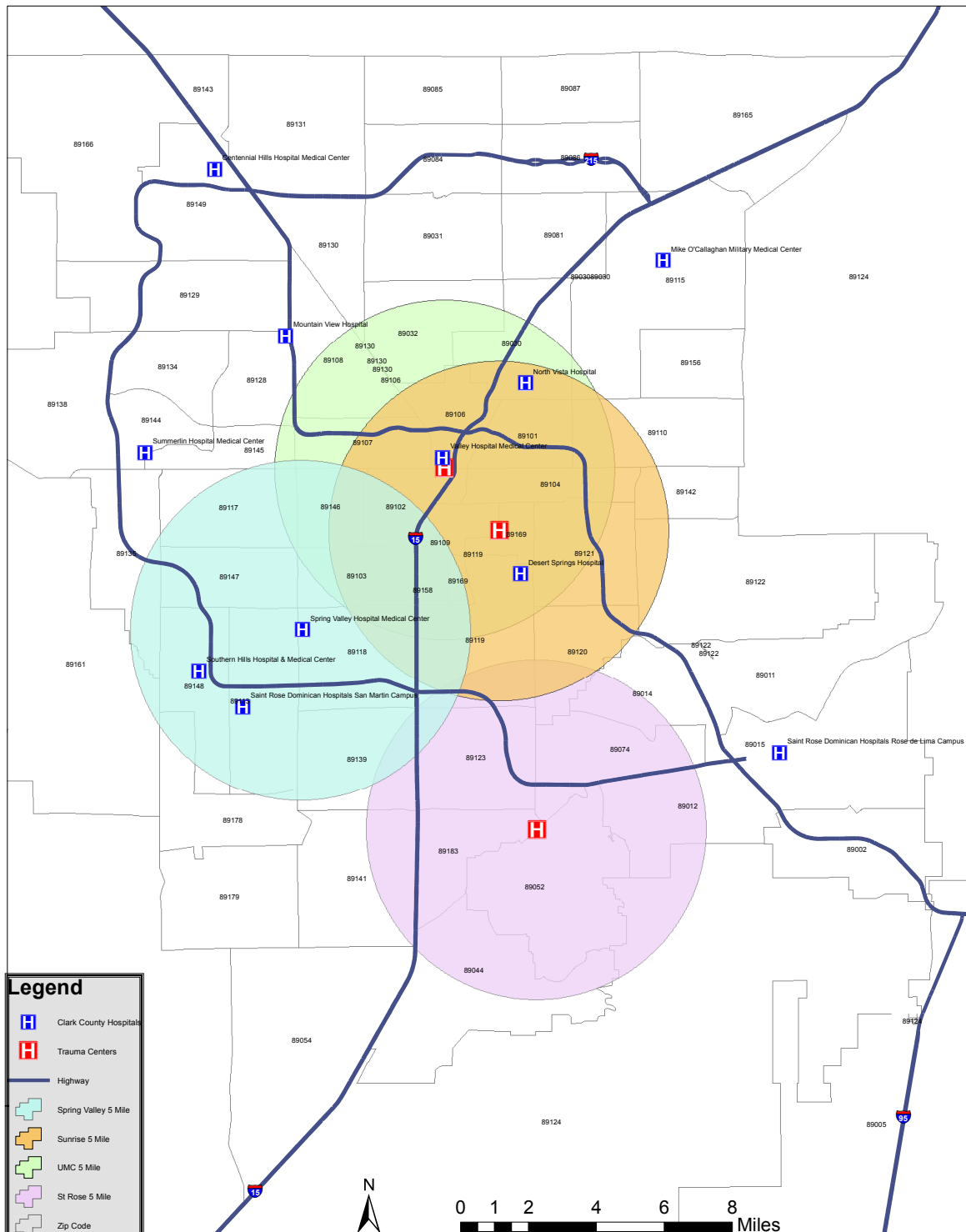


6. Trauma Centers & San Martin 5-Mile Radius Map



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7. Trauma Centers & Spring Valley 5-Mile Radius Map



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