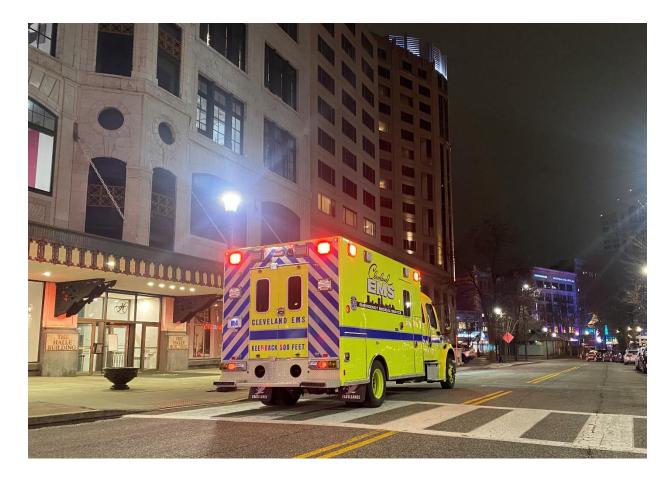
Cleveland EMS 2023 Response Statistics



Report produced by Timothy Sommerfelt for CARE 1975

All statistics derived from public records obtained by CARE 1975

For any questions or comments regarding this report, please email <u>tsommerfelt@care1975.com</u>.

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Service Overview:

Cleveland EMS (CEMS) is the primary provider of 911 medical treatment and transport for the City of Cleveland, Ohio. During 2023, the target staffing for Cleveland EMS was 23 Advanced Life Support (ALS) ambulances during daytime hours and 19 at night. When staffing allowed, more ambulances were operated.

CEMS was assisted by the Cleveland Fire Department (CFD), which staffed 31 Basic Life Support (BLS) units and 5 ALS non-transport units. CFD units provided patient care prior to the arrival of CEMS and accompanied CEMS to the hospital if the patient was in critical condition. CEMS was also assisted by the Cleveland Clinic Foundation (CCF) Mobile Stroke Unit, which is a private ambulance designed to provide specialized treatment to stroke patients.

CEMS ALS Ambulances 2023	23 day / 19 night*
CFD ALS Engine	5
CFD BLS Engine	18
CFD BLS Ladder	11
CFD BLS Rescue	2
Total CFD	36
CCF Mobile Stroke	1

General Statistics:

Total Emergency calls for 2023			
No onscene time	5,988		
Calls with a recorded on-scene time	99,498		

Goals: Historically, Cleveland EMS attempts to meet the National Fire Protection Association (NFPA) standard 1710, which calls for a BLS resource to arrive within 6 minutes from receipt of call and an ALS resource to arrive within 10 minutes from receipt of call.

Call Prioritization: Cleveland EMS utilizes a priority dispatch system. Dispatchers assign each call a letter prefix from Alpha-Echo to grade the severity of each call.

Alpha	BLS minor injury/illness
Bravo	BLS patient cannot walk
Charlie	ALS resources needed
Delta	ALS life-threatening emergency
Echo	ALS Inadequate breathing
Other	Non-common dispatch designation

In-service Disposition: Upon completion of the call, CEMS medics assign an in-service disposition to each call. This uses the same grading scale rating calls from Alpha-Echo, but also incorporates when a patient refuses to go to the hospital and situations where the unit cannot locate a patient.

TDA	To a control Alaba DIC action to the Alaba at
TRA	Transported Alpha- BLS minor injury/illness
TRB	Transported Bravo- BLS patient cannot walk
TRC	Transported Charlie- ALS resources needed
TRDM	Transported Delta Medical- ALS life-threatening medical
NOTS1	Transported Critical adult trauma
NOTS2	Transported Serious adult trauma
NOTS3	Transported Minor adult trauma
TRDT	Transported Pediatric trauma
TRET	Transported Traumatic Cardiac Arrest
TEM/TALS	Transported Echo Medical- Medical Cardiac Arrest
DOA/TREA	Dead On Arrival
REFUSAL	Patient refused transport
CCFMS	Patient transported by CCF mobile stroke unit
GOA/UTL	Patient is Gone on Arrival or Unable to be Located.
Other	CFD, CPD, or another agency handled.

Response Times and In-service Disposition by Dispatch Priority

Overall 2023 statistics			TRA	16,048	16%
Calls with recorded onscene time	99,499		TRB	18,450	19%
Average Start-to-Dispatch	4:23		TRC	24,760	25%
Median Start-to-Dispatch	2:25		TRDM	3,569	4%
under 4 min	80,838	81%	NOTS1	632	0.6%
under 3 min	67,076	67%	NOTS2	3,561	4%
under 2 min	32,214	32%	NOTS3	4,912	5%
under 1 min	2,138	2%	TRDT/PNOTS	763	0.8%
			TRET	73	0.1%
Average Dispatch-to-Onscene	7:40		TEM/TALS	497	0.5%
Median Dispatch-to-Onscene	7:02		Total Transports	73,205	74%
under 20 minutes	98,774	99%	DOA/TREA	1,090	1%
under 15 minutes	95,093	96%	REFUSAL	11,006	11%
under 10 minutes	77,088	77%	CCFMS	175	0.2%
under 8 minutes	60,376	61%	GOA/UTL	3,461	3%
under 6 minutes	36,741	37%	Other	10,501	115

2023 overall		
Average Start-to Onscene	12:04	
Median Start-to-Onscene	9:53	
Under 20 minutes	91,455	92%
under 15 minutes	81,385	82%
under 10 minutes	50,692	51%
under 8 minutes	29,986	30%
under 6 minutes	10,811	11%

Echo 2023 statistics			TRA	249	5%
Calls with recorded onscene time	4,753		TRB	469	10%
Average Start-to-Dispatch	2:02		TRC	1,763	37%
Median Start-to-Dispatch	1:41		TRDM	514	11%
under 4 min	4,535	95%	NOTS1	6	0.7%
under 3 min	4,301	90%	NOTS2	18	0.4%
under 2 min	3,198	67%	NOTS3	11	0.2%
under 1 min	233	5%	TRDT/PNOTS	1	0.2%
			TRET	5	0.7%
Average Dispatch-to-Onscene	7:08		TEM/TALS	284	6%
Median Dispatch-to-Onscene	6:33		Total Transports	3,320	70%
Under 20 minutes	4,731	99%	DOA/TREA	838	18%
under 15 minutes	4,621	97%	REFUSAL	307	6%
under 10 minutes	3,932	83%	CCFMS	0	0%
under 8 minutes	3,194	67%	GOA/UTL	41	0.9%
under 6 minutes	2,033	43%	Other	248	5%

	1				
Delta 2023 statistics			TRA	3,238	11%
Calls with recorded onscene time	30,615		TRB	4,291	14%
Average Start-to-Dispatch	2:53		TRC	9,899	32%
Median Start-to-Dispatch	2:12		TRDM	1,767	6%
under 4 min	27,154	89%	NOTS1	500	2%
under 3 min	23,459	77%	NOTS2	1,569	5%
under 2 min	12,271	40%	NOTS3	1,406	5%
under 1 min	636	2%	TRDT/PNOTS	284	1%
			TRET	64	0.2%
Average Dispatch-to-Onscene	7:28		TEM/TALS	181	0.6%
Median Dispatch-to-Onscene	6:47		Total Transports	23,199	76%
Under 20 minutes	30,408	99%	DOA/TREA	192	0.6%
under 15 minutes	29,377	96%	REFUSAL	3,190	10%
under 10 minutes	24,321	79%	CCFMS	4	0%
under 8 minutes	19,457	64%	GOA/UTL	1,238	4%
under 6 minutes	12,105	40%	Other	2,793	9%

Charlie 2023 statistics			TRA	4,903	20%
Calls with recorded onscene time	24,329		TRB	5,466	22%
Average Start-to-Dispatch	3:36		TRC	8,715	36%
Median Start-to-Dispatch	2:29		TRDM	893	4%
under 4 min	20,195	83%	NOTS1	12	0.1%
under 3 min	16,468	68%	NOTS2	141	0.6%
under 2 min	6,853	28%	NOTS3	135	0.6%
under 1 min	173	1%	TRDT/PNOTS	21	0.1%
			TRET	0	0%
Average Dispatch-to-Onscene	7:57		TEM/TALS	17	0.1%
Median Dispatch-to-Onscene	7:19		Total Transports	20,303	83%
Under 20 minutes	24,119	99%	DOA/TREA	0	0%
under 15 minutes	23,134	95%	REFUSAL	1,900	8%
under 10 minutes	18,258	75%	CCFMS	167	0.7%
under 8 minutes	13,996	58%	GOA/UTL	497	2%
under 6 minutes	8,197	34%	Other	1,462	6%

		1	1	
		TRA	2,340	12%
18,992		TRB	2,796	15%
4:32		TRC	1,282	7%
2:38		TRDM	168	0.8%
14,370	76%	NOTS1	75	0.4%
11,381	60%	NOTS2	1,284	7%
5,040	27%	NOTS3	2,350	12%
311	2%	TRDT/PNOTS	310	2%
		TRET	1	0%
7:42		TEM/TALS	10	0.1%
7:06		Total Transports	10,616	56%
18,866	99%	DOA/TREA	51	0.3%
18,133	95%	REFUSAL	3,386	18%
14,641	77%	CCFMS	1	0%
11,387	60%	GOA/UTL	1,270	7%
	4:32 2:38 14,370 11,381 5,040 311 7:42 7:06 18,866 18,133 14,641	4:32 2:38 14,370 76% 11,381 60% 5,040 27% 311 2% 7:42 7:06 18,866 99% 18,133 95% 14,641 77%	4:32 TRC 2:38 TRDM 14,370 76% NOTS1 11,381 60% NOTS2 5,040 27% NOTS3 311 2% TRDT/PNOTS TRET 7:42 TEM/TALS 7:06 Total Transports 18,866 99% DOA/TREA 18,133 95% REFUSAL 14,641 77% CCFMS	18,992 TRB 2,796 4:32 TRC 1,282 2:38 TRDM 168 14,370 76% NOTS1 75 11,381 60% NOTS2 1,284 5,040 27% NOTS3 2,350 311 2% TRDT/PNOTS 310 TRET 1 1 7:42 TEM/TALS 10 7:06 Total Transports 10,616 18,866 99% DOA/TREA 51 18,133 95% REFUSAL 3,386 14,641 77% CCFMS 1



Alpha 2023 statistics			TRA	5,218	28%
Calls with recorded onscene time	18,866		TRB	5,370	28%
Average Start-to-Dispatch	8:35		TRC	2,964	16%
Median Start-to-Dispatch	2:55		TRDM	210	1%
under 4 min	12,772	68%	NOTS1	26	0.1%
under 3 min	9,787	52%	NOTS2	492	3%
under 2 min	3,494	19%	NOTS3	935	5%
under 1 min	151	0.8%	TRDT/PNOTS	139	0.7%
			TRET	1	0%
Average Dispatch-to-Onscene	7:57		TEM/TALS	4	0%
Median Dispatch-to-Onscene	7:19		Total Transports	15,359	81%
Under 20 minutes	18,717	99%	DOA/TREA	3	0%
under 15 minutes	17,923	95%	REFUSAL	2,071	11%
under 10 minutes	14,233	75%	CCFMS	3	0%
under 8 minutes	10,922	58%	GOA/UTL	395	2%
under 6 minutes	6,376	34%	Other	1,035	5%

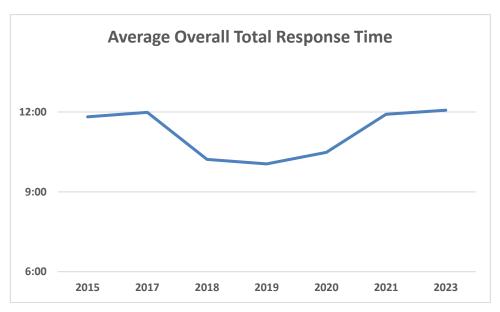
Other 2023 statistics				TRA	100	5%
Calls with recorded onscene time	1,945			TRB	58	3%
Average Start-to-Dispatch	1:49			TRC	73	4%
Median Start-to-Dispatch	1:27			TRDM	17	0.9%
under 4 min	1,817	93%		NOTS1	13	0.7%
under 3 min	1,685	87%		NOTS2	57	3%
under 2 min	1,362	70%		NOTS3	75	4%
under 1 min	639	33%		TRDT/PNOTS	8	0.4%
				TRET	2	0.1%
Average Dispatch-to-Onscene	5:48			TEM/TALS	1	0.1%
Median Dispatch-to-Onscene	5:34			Total Transports	404	21%
Under 20 minutes	1,938	99%		DOA/TREA	2	0.1%
under 15 minutes	1,910	98%	REFUSAL 152		152	8%
under 10 minutes	1,708	88%		CCFMS	0	0%
under 8 minutes	1,425	73%		GOA/UTL	29	1%
under 6 minutes	1,055	54%		Other	1,368	70%

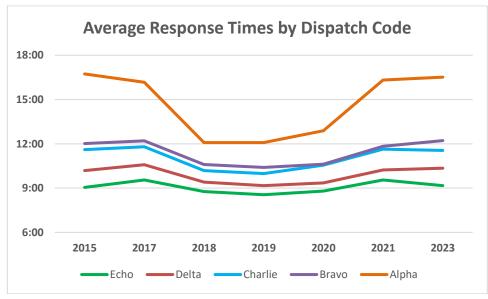
Day Shift (23 ambulances) vs Night Shift (19 ambulances)

Calls received 07:00-18:59	57,412	58%	Calls received 19:00-06:59	42,086	42%
Average response time	11:00			10:30	

Year-to-Year Comparison

Note that 2016 is not listed. In 2016 Cleveland hosted the Republican National Convention, the CAVS championship parade and the World Series. These events necessitated several weeks of atypical EMS responses that made for unreliable statistics. We were also unable to obtain accurate data for 2022.





Average Response Times

	Overall	Echo	Delta	Charlie	Bravo	Alpha
2015	11:49	9:03	10:11	11:36	12:01	16:44
2017	11:59	9:33	10:35	11:48	12:12	16:10
2018	10:13	8:46	9:24	10:11	10:36	12:05
2019	10:03	8:33	9:10	9:59	10:24	12:05
2020	10:29	8:48	9:21	10:33	10:37	12:53
2021	11:55	9:33	10:14	11:38	11:50	16:19
2023	12:04	9:10	10:21	11:33	12:13	16:31

Unit by Unit Comparison

Unit	2023 calls	Average response time
Medic 1	4,969	10:54
Medic 4	5,705	11:43
Medic 6	3,415	12:51
Medic 7	5,159	11:14
Medic 10	4,766	12:26
Medic 11	4,495	12:59
Medic 13*	1,638	14:08
Medic 17	3,582	11:39
Medic 20	4,525	12:32
Medic 21*	2,227	13:07
Medic 22	4,390	11:47
Medic 23	4,918	11:39
Medic 24	3,661	12:11
Medic 26	4,618	11:52
Medic 28*	2,145	14:06
Medic 30	4,636	11:57
Medic 31	4,478	12:28
Medic 33	4,050	11:21
Medic 36	4,564	11:51
Medic 38*	2,015	12:35
Medic 39	3,661	11:29
Medic 40	4,224	12:28
Medic 41	4,272	12:10
Medic 42	4,087	12:19
Medic 43	3,221	12:11
M2 and M3 MOB units**	77	7:49

^{*}Daytime only Unit **Units were not staffed for the entire year.

Methods and Limitations:

These statistics were compiled from a public records request filed by CARE 1975 for the actual call times for every single EMS run for the calendar year 2023. A Microsoft Excel spreadsheet was created, and thedata was reviewed to remove events without a documented onscene time and calls that duplicated the same information. This is probably the reason that the run totals in this paper are different than those released in the City of Cleveland budget books. Lastly, it appears that through a computer glitch when multiple ambulances respond to the same scene, as in the case of a traffic accident with multiple patients, only the response time of the first-arriving ambulance is recorded. As multi-unit calls represent a small amount of CEMS responses, however, this is unlikely to alter trends.