

# **Governor's EMS and Trauma Advisory Council**

## **Pre-Hospital Whole Blood Task Force: State EMS Blood Utilization & Cost Estimate**

**Presented November 22, 2024, GETAC PHWBTF**

# First, we looked at the TSA-P / STRAC Whole Blood Utilization Data (robust dataset over 2-year period, all blood administered prehospital, medical and trauma)

Population (2023)	Population Category	Aggregate 2yr Total WB Utilization	Monthly Average WB Utilization (Agg2yr/24)	Add Air Medical WB Utilization*	Monthly Total WB Utilization (Avg+AM)	# Counties in STRAC (22)	Estimated Monthly Cost Per Unit \$500 (Mo Ut*# Co)	Estimated Annual Cost (Mo Cost*12)
< 10,000	Frontier	12.00	0.50	0.82	1.32	6	\$ 3,959.02	\$ 47,508.20
10,001 - 50,000	Rural	46.00	1.92	3.14	5.06	7	\$ 17,705.60	\$ 212,467.21
50,001 - 99,999	Suburban	64.00	2.67	4.37	7.04	6	\$ 21,114.75	\$ 253,377.05
100,000 - 999,999	Urban	154.00	6.42	NA	6.42	2	\$ 6,416.67	\$ 77,000.00
1M-2.99M	Super Urban	676.00	28.17	NA	28.17	1	\$ 14,083.33	\$ 169,000.00
≥3M	HOU-BER URBAN	NA	NA	NA	NA	0	NA	NA
<b>TOTALS</b>		<b>952.00</b>	<b>39.67</b>	<b>8.33</b>	<b>48.00</b>		<b>\$ 63,279.37</b>	<b>\$ 759,352.46</b>

Aggregate 2yr Total WB Utilization – pulled directly from STRAC regional utilization data; example Frontier Counties:

- There are 6 frontier counties in the STRAC region
- We have data on 1 of the 6 frontier counties
- Average = sum of units used monthly divided by 1 county

Number of counties – simple count by population category

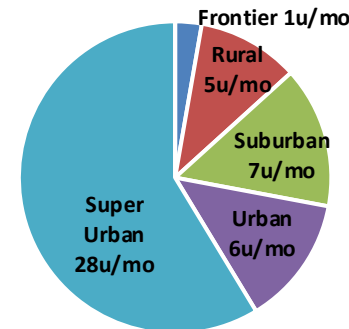
Monthly Total WB Utilization – Sum of Monthly Average plus Air Medical\* Utilization

- \*Air Medical WB Utilization is based on % of Utilization across the Frontier, Rural, and Suburban Counties.

Estimated Monthly Cost Per Unit – (Monthly Total WB Utilization X Number of Counties) X \$500.00

Estimated Annual Cost – Estimated Monthly Cost X 12

**Monthly Est. Total WB Utilization**



**Next, we applied the same math to the State (using the robust STRAC Data Set, same math, same starting point)**

Population (2023)	Population Category	Aggregate 2yr Total WB Utilization	Monthly Average WB Utilization (Agg2yr/24)	Add Air Medical WB Utilization*	Monthly Total WB Utilization (Avg+AM)	# Counties/ State (254)	Estimated Monthly Cost Per Unit \$500 (Mo Ut*# Co)	Estimated Annual Cost (Mo Cost*12)
< 10,000	Frontier	12.00	0.50	0.82	1.32	92	\$ 60,704.92	\$ 728,459.02
10,001 - 50,000	Rural	46.00	1.92	3.14	5.06	89	\$ 225,114.07	\$ 2,701,368.85
50,001 - 99,999	Suburban	64.00	2.67	4.37	7.04	30	\$ 105,573.77	\$ 1,266,885.25
100,000 - 999,999	Urban	154.00	6.42	NA	6.42	36	\$ 115,500.00	\$ 1,386,000.00
1M-2.99M	Super Urban	676.00	28.17	NA	28.17	6	\$ 84,500.00	\$ 1,014,000.00
≥3M	HOU-BER URBAN	NA	29.50	NA	29.50	1	\$ 14,750.00	\$ 177,000.00
<b>TOTALS</b>		<b>952.00</b>	<b>69.17</b>	<b>8.33</b>	<b>77.50</b>		<b>\$ 606,142.76</b>	<b>\$ 7,273,713.11</b>

Aggregate 2yr Total WB Utilization – pulled directly from STRAC regional utilization data; example Frontier Counties:

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- We have data on 1 of the 6 frontier counties
- Average = sum of units used monthly divided by 1 county

Number of counties – simple count by population category

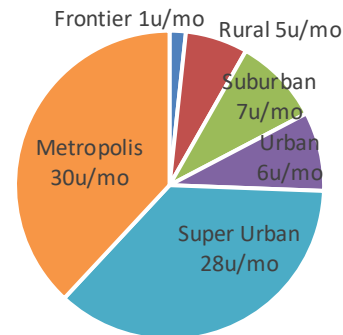
Monthly Total WB Utilization – Sum of Monthly Average plus Air Medical\* Utilization

- \*Air Medical WB Utilization is based on % of Utilization across the Frontier, Rural, and Suburban Counties.

Estimated Monthly Cost Per Unit – (Monthly Total WB Utilization X Number of Counties) X \$500.00

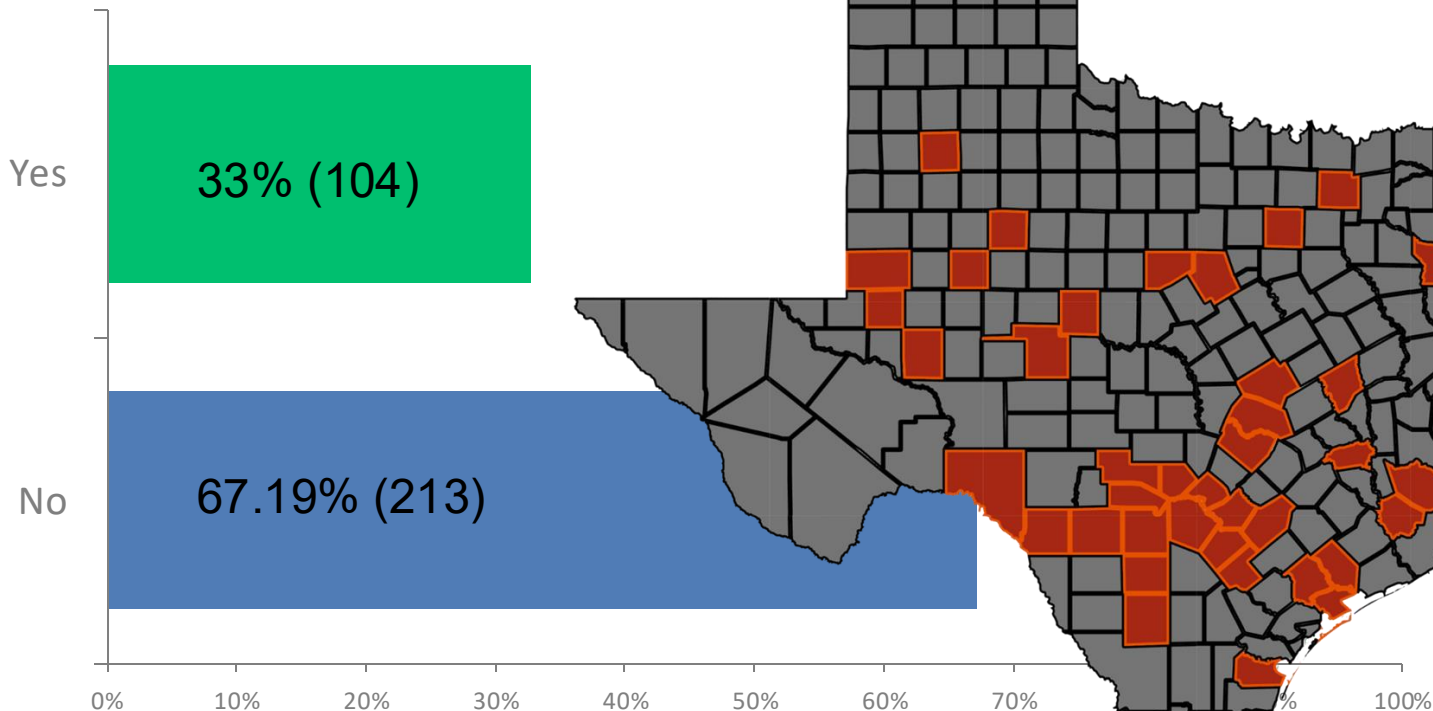
Estimated Annual Cost – Estimated Monthly Cost X 12

**Monthly Est. Total WB Utilization**



# From the Survey Monkey data presented at the August GETAC PHWBTF, we asked how many Prehospital agencies currently have whole blood programs.

Answered: 317 Skipped: 0



## TX EMTF 1

Lead RAC: Panhandle RAC  
TSAs: A & B ~ HSR 1  
[www.PanhandleRAC.com](http://www.PanhandleRAC.com)

## Level 1 Trauma Centers within each TX EMTF Region

## TX EMTF 2

Lead RAC: NCTTRAC  
TSAs: C, D, & E ~ HSR 2/3  
[www.NCTTRAC.org](http://www.NCTTRAC.org)

## TX EMTF 4

Lead RAC: Piney Woods RAC  
TSAs: F & G ~ HSR 4/5N  
[www.RAC-G.org](http://www.RAC-G.org)

## TX EMTF 6

Lead RAC: SETRAC  
TSAs: H, Q, & R ~ HSR 6/5S  
[www.SETRAC.org](http://www.SETRAC.org)

## TX EMTF 7

Lead RAC: Capital Area Trauma RAC  
TSAs: L, M, N, & O ~ HSR 7  
[www.CATRAC.org/EMTF](http://www.CATRAC.org/EMTF)

## TX EMTF 8

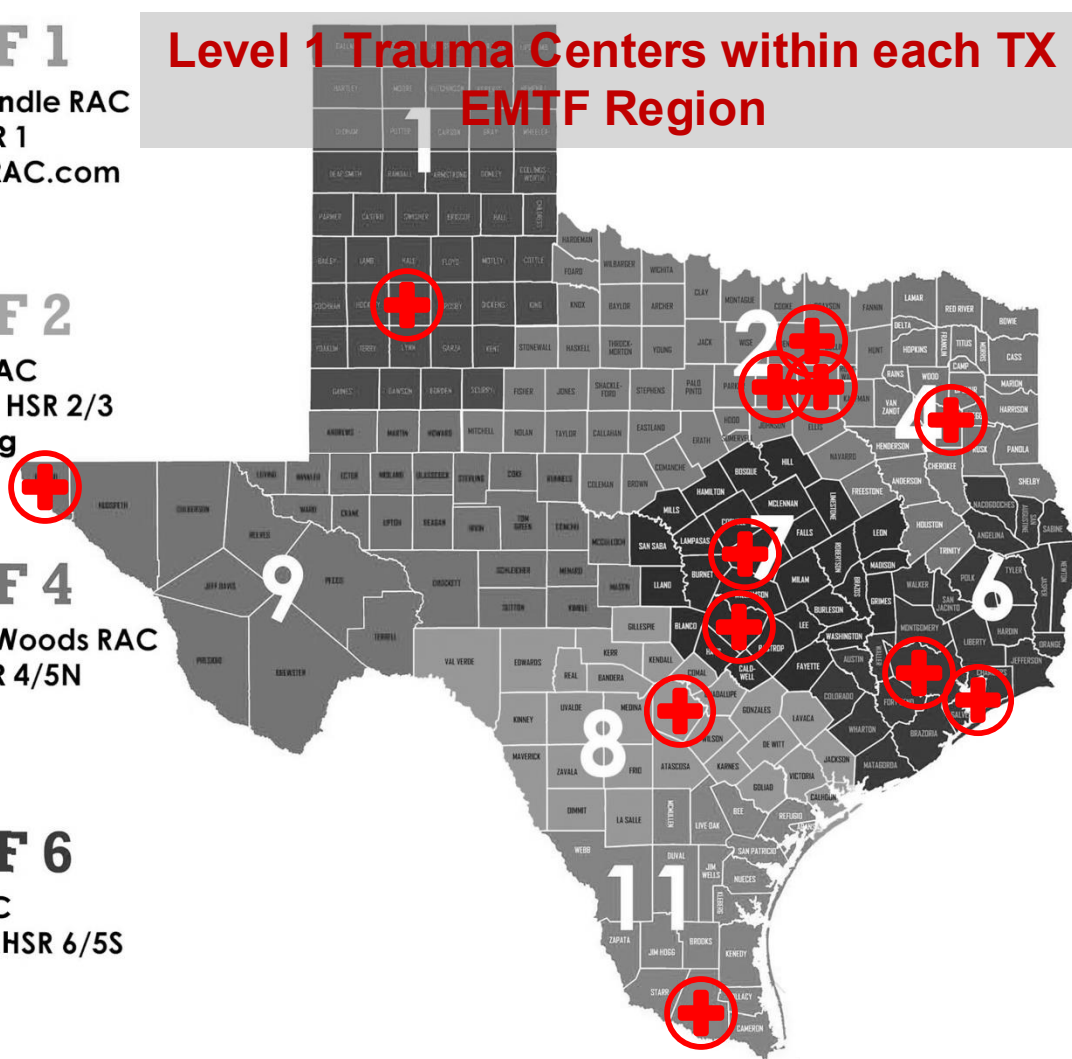
Lead RAC: STRAC  
TSAs: P & S ~ HSR 8  
[www.STRAC.org](http://www.STRAC.org)

## TX EMTF 9

Lead RAC: Border RAC  
TSAs: I, J, & K ~ HSR 9/10  
[www.BorderRAC.org](http://www.BorderRAC.org)

## TX EMTF 11

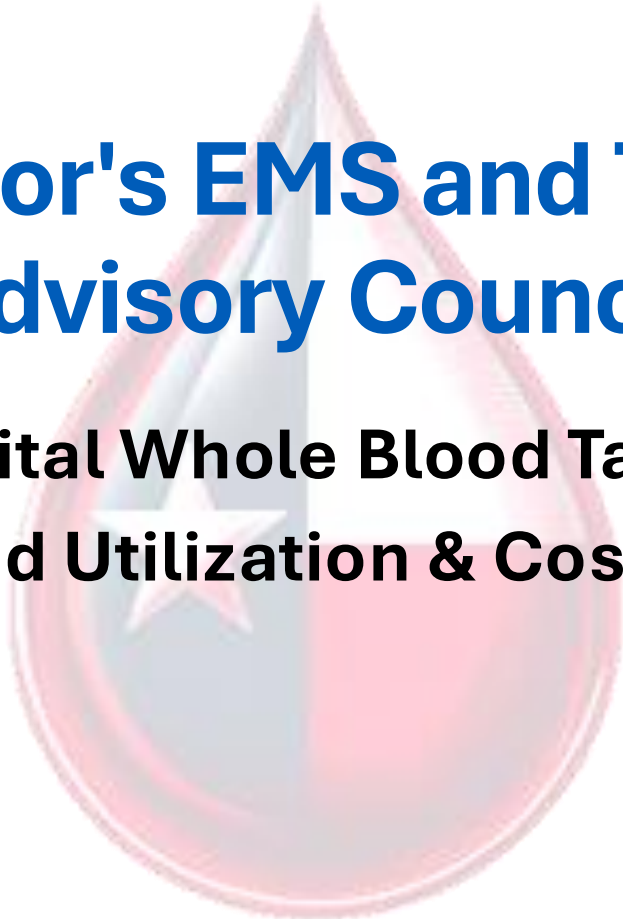
Lead RAC: CBRAC  
TSAs: T, U, & V ~ HSR 11  
[www.CBRAC.org](http://www.CBRAC.org)



## Each EMTF Region has at least one Level I Trauma Center that could potentially be used as a Blood Bank:

<u>TSA</u>	<u>Facility Name</u>	<u>City (TX)</u>	<u>EMTF Region</u>	<u>County</u>
B	University Medical Center	Lubbock	1	Lubbock
E	Medical City Plano	Plano	2	Collin & Denton
E	Baylor University Medical Center	Dallas	2	Dallas
E	Childrens Medical Center of Dallas	Dallas	2	Dallas
E	Methodist Dallas Medical Center	Dallas	2	Dallas
E	Parkland Memorial Hospital	Dallas	2	Dallas
E	Texas Health Presbyterian Hospital Dallas	Dallas	2	Dallas
E	John Peter Smith Hospital	Fort Worth	2	Tarrant
E	Texas Health Harris Methodist Hospital Fort Worth	Fort Worth	2	Tarrant
G	UT Health East Texas Tyler Regional Hospital	Tyler	4	Smith
I	University Medical Center of El Paso	El Paso	9	El Paso
L	Baylor Scott & White Medical Center - Temple	Temple	7	Bell
O	Dell Childrens Medical Center	Austin	7	Travis
O	Dell Seton Medical Center at The University of Texas	Austin	7	Travis
P	Brooke Army Medical Center	Fort Sam Houston	8	Bexar
P	University Hospital	San Antonio	8	Bexar
Q	Harris Health System Ben Taub Hospital	Houston	6	Harris
Q	Memorial Hermann - Texas Medical Center	Houston	6	Harris
Q	Texas Childrens Hospital	Houston	6	Harris
R	University of Texas Medical Branch	Galveston	6	Galveston
V	Doctors Hospital at Renaissance	Edinburg	11	Hidalgo
V	South Texas Health System McAllen	McAllen	11	Hidalgo





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***Questions?***

**Presented November 22, 2024**

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