

Tank Destroyer School

DEPARTMENT OF TACTICS

Camp Hood, Texas



REFERENCE DATA

TD UNITS

MAY 1943

TDS-111

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PLEASE READ INTRODUCTION ON PAGE TWO

INTRODUCTION

The reference data contained herein are based upon the organization of TD Units as set forth below. Since Tables of Organization and Tables of Equipment are subject to change, and strength and composition of units in the field forces will vary these data are issued to students of the TD School for use in the solution of school problems only. TD units of the field forces should consider these data only as a guide in the preparation of their own data.

	T/O	T/E
TD Bn	18-25 Jan. 27, 1943	18-25 Jan. 27, 1943
Hq Co	18-26 " " "	18-26 " " "
TD Co	18-27 " " "	18-27 " " "
Rcn Co	18-28 " " "	18-28 " " "
Med Det	18-25 " " "	18-25M " " "
TD Group		
Hq & Hq Det	18-10-1 Dec. 20, 1942	18-10-1 Dec. 20, 1942
TD Brig.		
Hq & Hq Co	18-50-1 (Tentative)	18-50-1 Feb. 27, 1943

Basic Ammunition loads contained herein are based upon the recommendation of the TD Board to AGF. These recommendations have not yet been approved.

Gasoline consumption data for individual vehicles used herein in Unit Mile Tables were obtained from Ammunition Force Tables in FM 101-10 (Tentative) prepared by the Command and General Staff School and dated Jan. 25, 1943.

PERSONNEL OF TD UNITS

1		Brig Hq	Brig Hqs Co	Total TD Brig of 2 TD Gps of 3 TD Bns each	Gp Hq	Gp Hq Det	Total TD Gp of 3 TD Bns	TD Bn Hq	TD Bn Hq Co	TD Rcn Co	3 TD Co (ca)	Total TD Bn	Atchd Med	Grand Total TD Bn & Med
2	Brigadier General	1		1										
3	Colonel	1		3	1		1							
4	Lt. Colonel	1		9	1		4	1				1		1
5	Major	2		12	2		5	1				1		1
6	Captain	2	1	69	2	1	33	4	1	1	1	9	1	10
7	First Lieutenant	2	1	107		1	52		5	2	3	16	1	17
8	Second Lieutenant	1		43			21		1	3	1	7		7
9	Total Commissioned	10	2	244	6	2	116	6	7	6	5	34	2	36
10	Warrant Officer			6			3		1			1		1
11	Master Sergeant		1	15		1	7		2			2		2
12	First Sergeant		1	33		1	16		1	1	1	5		5
13	Technical Sergeant		2	34		1	16		5			5		5
14	Staff Sergeant		5	227		3	111		6	8	7	35	1	36
15	Sergeant		3	371		1	184		5	8	16	61		61
16	Corporal		2	336		2	167		2	4	16	54	1	55
17	Technician, Grade 4		9	295		5	143		18	7	7	46		46
18	Technician, Grade 5		8	602		9	297		24	15	18	93	3	96
19	Private, 1st Class		10	246		7	418		20	34	26	132	5	137
20	Private		16	1124		10	589		30	45	37	186	7	193
21	Basic		(5)	(367)		(4)	(181)		(10)	(11)	(12)	(57)	(7)	(59)
22	Total Enlisted		57	3953		40	1948		113	122	128	612	17	636
23	Grand Total	10	59	4203	6	42	2067	6	121	128	133	654	19	673

VEHICLES OF TD UNITS

VEHICLE	TD Bn	Group Hqs & Hqs Det	Group Total (3 Bns)	Brigade Hqs & Hqs Co	Brigade Total (2 Gns)
Car, Armored Utility M10	14	3	45	2	92
Car, Armored, light, M3	6		18		36
Car, Scout, M3A1				1	1
Car, Armored, recovery	3		9		13
Compressor, air, motorized, 1 1/2 Ton	1		3		6
Gun, 3", AT, SP	36		102		216
Motorcycle, solo	15	3	48	2	98
Trailer, 1/2 ton, 2 wheel, cargo	1		3		6
Trailer, 1 ton, 2 wheel, cargo	23	1	70	4	124
Truck, 1/2 ton, 4 x 4	34	1	103		206
Truck, 3/4 ton, 4 x 4 C/R	3	3	12	1	25
Truck, 3/4 ton, 4 x 4, w/o	8	3	27	1	55
Truck, 1 1/2 ton, 6 x 6, cargo	11		33	3	63
Truck, 2 1/2 ton, 6 x 6, cargo	21	1	64	1	129
Truck, 10 T. 6 x 6, wrecker	1		3		6
TOTAL	277	15	546	15	1107
Fuel consuming Vehicles	253	14	473	11	957

WEAPONS OF TD UNITS (Includes vehicular weapons)

WEAPON	TD Bn.	Group Hqs and Hqs Det	TD Group (3 Bns)	Brigade Hqs and Hqs Co	TD Brigade (2 Groups)
Carbine, cal. .30 M1	534	33	1635	49	3319
Pistol, cal. .45, M1911 A1	78	15	249	5	503
Rifle, cal. .30, M1903	42		126	15	267
MG, cal. .30	47		141	1	253
MG, cal. .50	68	5	209	4	402
37mm Gun (Car Armored light, M3)	6		18		36
3" Gun	34		103		216
Launcher, rocket, AT M1	62	5	191	7	389
Projectors, Signal, ground	15	2	47	1	95
Pistol, Pyrotechnic, M3	45		135	3	273
SNC, cal. .45 (vehicular)	56	3	171	3	345

TD BATTALION
VEHICULAR AND RESERVE
FUEL CAPACITY

Vehicle	No. Veh.	Cap fuel Tanks	Total fuel Cap	No. drums per veh.	Total Drums	Reserve Fuel Cap
Car, army light & utility	20	60	1200	0	0	0
Compressor, air, mtz	1	60	60	4	4	20
Gun, 3", M10	36	150*	5400	0	0	0
Motorcycle	15	3½	52	0	0	0
Truck, ½ ton	34	15	510	1	34	170
Truck, 3/4 ton	11	30	330	2	22	110
Truck, 1½ ton	11	30	330	2	22	110
Truck, 2½ ton	16	40	720	4	72	360
Truck, 2½ ton G O	3	40	120	174	522	2610
Truck, 10 ton, wrecker	1	95	95	5	5	25
Car, armed, recovery	3	175	525	4	12	60
Totals	153		9342		693	3465
			3465			
Total Bn Capacity (Gallons)			12607			

*Diesel M10. M10-1 (Gasoline) tank holds 192 gals.

TD CROOK: 11th DET
VEHICULAR & RESERVE GASOLINE CAPACITY

VEHICLE	Number of vehicles	Fuel tank Capacity	Total Capacity of tanks	Number Drums per veh.	Total Number Drums	Total Reserve Capacity
Car, Armored, utility	3	60	180			
Motorcycle, Solo	3	3½	10			
Truck, ½ Ton	1	15	15	1	1	5
Truck, 3/4 Ton	6	30	180	2	12	60
Truck, 2½ Ton	1	40	40	4	4	20
TOTALS	14		425		17	85
			95			
Total Bn Capacity (Gallons)			510			

Note: 5 gallon drum containing gasoline weighs approx. 41 lbs.
" " " " " diesel oil " " 46 lbs.

TD BRIGADE HQS COMPANY
Vehicular and Reserve Gasoline Capacity

VEHICLE	Number of Vehicles	Fuel Tank Capacity	Total Capacity of Tanks	Number Drums Per Veh.	Total Number Drums	Total Reserve Capacity
Car, Armored, Utility	2	60	120	0	0	0
Car, Scout	1	30	30	0	0	0
Motorcycle, Solo	2	3 $\frac{1}{2}$	7	0	0	0
Truck, 3/4 T	2	30	60	2	4	20
Truck, 1 $\frac{1}{2}$ T, Cargo, 6x5	3	30	90	2	6	30
Truck, 2 $\frac{1}{2}$ T, Cargo, 6x6	1	40	40	2	2	10
TOTAL	11		347 60 407		12	60

TD UNIT SUMMARY
Vehicular and reserve gasoline capacity

UNIT	Number of Fuel Consuming Vehicles	Total Fuel Tank Capacity	Number Gasoline Drums	Total Reserve Capacity	Total Fuel Capacity of Unit
T D Bn.	153	9342	693	3465	12807*
Group Hq Det	14	425	17	85	510
T D Group (3 TD Bns)	473	28451	2096	10480	38931
Brigade Hq Co	11	347	12	60	407
T D Brigade (2 Groups)	957	57249	4204	21020	78269

*Add 1512 gallons for total capacity of Bn equipped with Gun 3" M1C1 (Gasoline driven).

TD BATTALION

ENGINE OIL & GREASE REQUIREMENTS

	No of Vehs.	Gallons Engine Oil per Vehicle mile	Total Gallons Engine Oil per mile	Pounds of grease per veh. mile	Total pounds of grease per mile
CAIM8 & CAU H10	20	.015	.300	.009	.180
Car, armored, recovery	3	.141	.423	.012	.036
Compressor, air, Mtz	1	.010	.010	.007	.007
Mtcl., Solo	15	.002	.030	---	---
Truck, $\frac{1}{2}$ ton	34	.003	.102	.002	.072
Truck, $\frac{3}{4}$ ton, CR & WC	11	.003	.033	.002	.032
Truck, $1\frac{1}{2}$ ton, cargo	11	.004	.044	.002	.032
Truck $2\frac{1}{2}$ ton, cargo	21	.006	.126	.005	.105
Truck, Wrecker, 10 T.	1	.016	.016	.010	.010
Gun 3" ATSP	36	.141	5.076	.012	.432
Total	153		6.160		.836

CAIM8 -- Car, Armored, Light, 18.

CAU H10 -- Car, Armored, Utility, H10.

TD UNIT SUMMARY ENGINE OIL & GREASE REQUIREMENTS

Quantity per 100 miles						
	TD Bn		Gp of 3 Bns		Brig of 2 Gps	
	Gallons	Pounds	Gallons	Pounds	Gallons	Pounds
Engine Oil	600	5520*	1810	16652*	3520	33304*
Grease	---	100	---	300	---	600
TOTAL		5620		16952		33904
* Based on 46 lbs. per 5 gal. drum.						

TD UNITS
UNIT MILE
GASOLINE ONLY

"OTHER" VEHICLES	Miles Per Gallon	Unit Mile Per Veh	TD Bn		TD Gr		TD Brig	
			Num. Veh.	Total Unit Mile	Num. Veh.	Total Unit Mile	Num. Veh.	Total Unit Mile
CALME and CAUMIO*	5.8	.1724	20	3.45	3	.52	2	.34
Car, Armored, Recovery	0.7	1.4286	3	4.28	-	-	-	-
Car, Scout (M3A1)	6.0	.1667	-	-	-	-	2	.17
Compressor, Air. Mtz	5.0	.2000	1	.20	-	-	1	-
Motorcycle, Solo	21.6	.0465	15	.70	3	.14	2	.09
Truck, 1/2 ton	17.3	.0587	34	2.00	1	.06	-	-
Truck, 3/4 T	8.0	.1250	11	1.38	6	.75	2	.25
Truck, 1 1/2 Ton. Cargo	6.5	.1540	11	1.69	-	-	3	.46
Truck, 2 1/2 Ton. Cargo	5.5	.1818	21	3.82	1	.18	1	.12
Truck, 10 Ton Wrecker	2.9	.3450	1	.35	-	-	-	-
			117	17.27	14	1.65	11	1.49

*CALME - Car, Armored, light, M8

CAUMIO - Car, Armored, Utility, M10

DIESEL OIL M10

Gun, 3" AT, SP M10	1.0	1.0	36	36	
GASOLINE M10					
Gun, 3", AT, SP, M10A1	.7	1.4286	36	51.43	

SUMMARY

VEHICLES	FUEL	UNIT MILE		
		BN	GROUP	BRIGADE
Others	Gasoline	17.87	55.26	112.01
Gun, 3", M10	Diesel	36.00	108.00	216.00
Total	Gas & Diesel	53.87	163.26	328.01
Others	Gasoline	17.87	55.26	112.01
Gun 3", M10A1	Gasoline	51.43	154.29	308.53
Total	All Gas Bn	69.30	209.55	420.59

HQ & HQ CO TD BN BASIC AMMUNITION LOAD (Less Bn Train Reserve)						
Vehicle, Individual or Unit	No Vehs Inds. or Units	Type of Ammunition	Rounds per Ind. Veh. or Unit	Notes (See page 18)	Total Number Rounds	Total Weight Packed (lbs)
VEHICLE:						
Caval. M10	3	.45 cal SMC	270	(1)	810	46
	3	.50 cal MG	1000	(2)	3000	1027
Truck, 1/2 ton	1	.30 cal MG	500	(2)	500	40
Truck, 3/4 ton, WC	1	.30 cal MG	500	(2)	500	40
Truck, 2 1/2 ton, Cargo	4	.50 cal MG	500	(2)	2000	725
ECMV in MM & Trans plat	21	Grenade, rifle	1	---	21	57
ECMV exc mtrcl	34	Grenade, frag	6	---	204	408
ECMV exc mtrcl & 2 1/2 ton	16	Grenade, smoke	6	---	96	230
Truck, 1/2 ton	3	Pot, smoke	2	---	6	102
ECMV exc 1/2 ton & mtrcl	31	Pot, smoke	4	---	124	2106
INDIVIDUAL:						
Carbine	99	.30 cal	180	(8)	17820	602
Launcher, rocket	14	Rocket ATK	10	---	140	952
Pistol, M1911A1	28	.45 cal	21	(1)	588	32
UNIT:						
Bn Hd & Hd Co	2	Signals, ground	36	(6)	72	94
TOTAL WEIGHT (lbs)						6521

MED DET TD BN BASIC AMMUNITION LOAD						
Vehicle, Individual or Unit	No Vehs Inds. or Units	Type of Ammunition	Rounds per Ind. Veh. or Unit	Notes (See page 18)	Total Number Rounds	Total weight Packed (lbs)
Vehicle						
Truck, 1/2 ton	3	Pot, smoke	2	---	6	102
Truck, 3/4 ton, WC	1	Pot, smoke	4	---	4	68
TOTAL WEIGHT (lbs)						170

RCM CO
TD BN

BASIC AMMUNITION LOAD

Vehicle, Individual or Unit	No. Vehs Inds. or Units	Type of Ammunition	Rounds per Ind. Veh. or Unit	Notes (See Page 18)	Total Number Rounds	Total Weight Packed (lbs)
VEHICLE						
CAL MG	6	.30 cal MG	1500	(2)	9000	727
	6	.45 cal SMG	270	(2)	1620	83
	6	37mm Gun	80	(3)	480	2364
	6	Pyrotechnics	18	(5)	108	94
CAL M10	5	.45 cal SMG	270	(2)	1350	74
	5	.50 cal MG	1000	(2)	5000	1511
Truck, 1/2 ton	12	.30 cal MG	750	(2)	9000	727
Truck, 1 1/2 ton	2	.50 cal MG	1000	(2)	2000	725
POW exc mtrcl	28	Grenade, rifle	3	---	84	227
	28	Grenade, frag.	4	---	112	336
	28	Grenade, smoke	4	---	112	426
	28	Mine, ATK	3	---	84	1075
Truck 1/2 ton	13	Pot, smoke	2	---	26	442
POW exc 1/2 ton & mtrcl	15	Pot, smoke	4	---	60	1020
INDIVIDUAL						
Carbine, M1	111	.30 cal	120	(1)	13320	675
Launcher, rocket, AT	21	Rocket, ATK	10	---	210	1423
Pistol, M1911A1	11	.45 cal	21	(1)	231	15
Rifle, M1405	6	.30 cal	60	(2)	360	70
PLAT						
Pioneer Plat	1	Mine, ATK M1	300	---	300	750
Pioneer Plat	1	Torp. Bang.	2	(7)	14	100
			(units)		(units)	
5th Plat	3	Pyrotechnics	18	(2)	54	47
Co. Sec	1	Signals, ground	3	(1)	3	17
TOTAL WEIGHT (lbs)						15407

TD CO TD BN BASIC AMMUNITION LOAD (Less TD Platoon Reserve)						
Vehicle, Individual or Unit	No. Vehs. Inds. or Units	Type of Ammunition	Rounds per Ind. Veh. or Unit	Notes (See Page 18)	Total Number Rounds	Total Weight packed (lbs)
VEHICLE						
CAV M10	2	.45 cal SMG	270	(2)	540	30
	2	.50 cal MG	1000	(2)	2000	725
CAR	1	.30 cal MG	2000	(9)	2000	162
Gun, 3", AF, SP	12	.45 SMG	270	(2)	3240	176
	12	.50 MG	1000	(2)	12000	4347
	12	3 inch	54	(4)	648	25272
	12	Pyrotechnics	18	(5)	216	187
Truck, $\frac{1}{4}$ ton	4	.30 cal MG	750	(2)	3000	242
Truck, $1\frac{1}{2}$ ton	3	.30 cal MG	750	(2)	2250	182
	3	.50 cal MG	1000	(2)	3000	1787
Truck, $3\frac{1}{2}$ ton	1	.50 cal MG	500	(2)	500	181
Truck, $1\frac{1}{2}$ ton	3	Grenade, rifle	10	---	30	81
FCMV exc mtrcl	24	Grenade, frag	6	---	144	228
FCMV exc mtrcl & $2\frac{1}{2}$ ton	23	Grenade, smoke	6	---	138	334
Truck, $\frac{1}{4}$ ton	5	Pot, smoke	2	---	10	170
FCMV exc $\frac{1}{4}$ ton & mtrcl	19	Pot, smoke	4	---	76	1292
INDIVIDUAL						
Carbine, M1	108	.30 cal	120	(8)	12960	657
Launcher, rocket, AT	9	Rocket, AT	10	---	90	612
Pistol M1911A1	13	.45 cal	21	(1)	273	15
Rifle M1903	12	.30 cal	60	(2)	720	60
UNIT						
Co Hq Sec: TD Plat	4	Signals, ground	36	(6)	144	187
TOTAL WEIGHT (LBS)						56289

TPAID RESERVE TD BN (trans plat am sec)					
BASIC AMMUNITION LOAD					
Unit	No Vehs in Unit	Type of Ammunition	Notes See Page 18	Total rounds in Am Section	Total weight packed (lbs)
Ammunition Section	6	.30 cal Carbine	(1)	53400	1805
Transportation	2 1/2 ton	.30 cal. Rifle	(2)	2520	210
Platoon, Sq Co	Trucks	.30 cal, MG	(2)	45000	3636
	2	.45 cal. SMG	(2)	11200	516
	6	.50 cal, MG	(2)	17000	6158
	1 ton	37mm	(3)	120	501
	Trailers	3 inch	(4)	612	23868
		Rocket	---	620	4216
Total weight (lbs)					41,200

TD PLATOON RESERVE TD BN (TD Plat Am Trailers)							
BASIC AMMUNITION LOAD							
Type of Ammunition	Notes	Each Trailer		Each TD Company (3 trailers)		Entire Bn.	
		Rounds	Weight Packed (lbs)	Rounds	Weight Packed (lbs)	Rounds	Weight Packed (lbs)
.30 cal MG	(2)	3000	242	9000	726	27000	2178
.50 cal MG	(2)	1500	547	4500	1629	13500	4837
3"	(4)	32	1248	96	3744	262	11732
Total weight (lbs)		2033		6101		18297	

BASIC AMMUNITION LOAD

TD BN SUMMARY
(By rounds & weight)

Type of Ammunition		HA & Hc Co less Am Sec	Rcn Co	TD Co less TD Plat Trlrs (ea of 3)	TD Plat Trlr. (ea of 9)	Bn Am Sec	Total TD Bn
.30 cal Carbine	Rds	17820	19980	19440		53400	140520
	lbs	602	675	657		1205	5055
.30 cal Rifle	Rds		360	720		2520	5040
	lbs		30	60		210	420
.30 cal MG	Rds	1000	18000	7250	3000	45000	113750
	lbs	80	1454	566	242	5636	9106
.45 cal Pistol	Rds	588	231	273			1636
	lbs	32	13	15			90
45 cal SMG	Rds	810	2970	3780		11200	26320
	lbs	46	163	208		616	1449
.50 cal MG	Rds	5000	7000	17500	1500	17000	95000
	lbs	1812	2536	6340	543	6158	34413
37 mm Gun	Rds		480			120	600
	lbs		2364			591	2955
3" Gun	Rds			648	32	612	2844
	lbs			25272	1248	23868	110916
Grenade, rifle	Rds	21	84	30			135
	lbs	57	227	81			527
Grenade, frag.	Rds	204	168	144			804
	lbs	408	336	388			1608
Grenade, smoke	Rds	96	168	138			579
	lbs	230	406	334			1638
Pot, smoke	Rds	140	86	86			494
	lbs	2372	1462	1462			8226
Pyrotechnics	Rds		162	216			810
	lbs		141	187			702
Rocket, AT	Rds	140	210	90		620	1240
	lbs	932	1428	612		4216	8472
Signals, ground	Rds	72	36	144			540
	lbs	94	47	187			702
Mines, AT	Rds		384				384
	lbs		4915				4915
Tornado, Bangalore	Rds		2				2
	lbs		210				210
TOTAL ROUNDS		25881	50331	50459	4532	150472	398849 *
TOTAL WEIGHT(lbs)		6521	16407	56289	2053	41100	191362 *

* Totals include 10 pots, smoke weighing 170 lbs in Med Det.

BASIC AMMUNITION LOAD				HQ & HQ DET TD CP		
Vehicle, Individual or Unit	No. Vehs Inds. or Units	Type of Ammunition	Rounds per Ind. Veh. or Unit	Notes See Page 19	Total number Rounds	Total weight, packed (lbs)
<u>Vehicle</u>						
CAU M10	5	.45 cal. SIG	270	(1)	810	45
	3	.50 cal. MG	1000	(2)	3000	1087
Truck, 5/4 ton, WC	1	.50 cal. MG	500	(2)	500	101
Truck, 2 1/2 ton.	1	.50 cal. MG	500	(2)	500	191
FCMV exc 2 1/2 ton & mtrcl	10	Grenade, smoke	6	---	60	145
FCMV exc mtrcl	11	Grenade, frag	6	---	66	132
Truck, 1/2 ton	1	Pot, smoke	2	---	2	34
FCMV exc 1/2 ton & mtrcl	10	Pot, smoke	4	---	40	600
<u>Individual</u>						
Garbine, M1	32	.30 cal.	180	(8)	5940	201
Launcher, rocket, AT	5	Rocket, AT	10	---	50	300
Pistol, M1911A1	18	.45 cal.	21	(1)	216	12
<u>Unit</u>						
Gp Hd: Hq Det	2	Signals, ground	36	(6)	72	94
Total weight (lbs)						3136

BASIC AMMUNITION LOAD

HQ & HQ CO
TD BRIG

Vehicle, Individual or Unit	No. Vehs Inds. or Units	Type of Ammunition	Rounds per Ind. Veh. or Unit	Notes See Page 18	Total number Rounds	Total weight packed (lbs)
<u>Vehicle</u>						
CAV M10	2	.45 cal SMG	270	(1)	540	30
	2	.50 cal MG	1000	(2)	2000	735
Car, scout, M3A1	1	.30 cal MG	1500	(2)	1500	121
	1	.45 cal SMG	270	(1)	270	149
	1	.50 cal MG	1000	(2)	1000	362
Truck, 2 $\frac{1}{2}$ ton	1	.50 cal MG	500	(2)	500	181
FCMV exc mtrcl	9	Grenade, frag	6	---	54	108
FCMV exc 2 $\frac{1}{2}$ ton & mtrcl	8	Grenade, smoke	6	---	48	116
FCMV exc mtrcl	9	Pot, smoke	4	---	36	613
<u>Individual</u>						
Carbine, M1	49	.30 cal	180	(1)	8820	398
Launcher, rocket, AT	7	Rocket, AT	10	---	70	476
Pistol, M1911A1	5	.45 cal	21	(1)	105	6
Rifle, M1903	15	.30 cal	60	(2)	900	75
<u>Unit</u>						
Brig Hq & Hq Co	1	Pyrotechnics	54	(5)	54	47
	1	Signal, ground	36	(6)	36	47
Total weight (lbs)						3354

BASIC AMMUNITION LOAD

TD BN
RECAPITULATION
OF WEIGHTS

AMMUNITION CARRIED ON INDIVIDUAL OR ON VEHICLE WITH WEAPON

Hq & Hq Co	6521
Rcn Co	16407
A Co	36289
E Co	36289
C Co	36289
Med Det.	170

Total weight (lbs)	131965	(66.0 Tons)
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AMMUNITION RESERVE (AM. SEE 2 TD PLAT TRAILERS)

TD Platoons(9)	16297
Bn Am. Section	41100

Total weight (lbs)	59397	(29.7 Tons)
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Total Basic load (lbs)	191362	(95.7 Tons)
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BASIC AMMUNITION LOAD

SUMMARY
ALL TD UNITS

UNIT		On Ind & Veh w/wpn.	On Rcn Am Sec. & 1 TD Plat Am. Trlr.	Total
TD Bn.	lbs tons	131965 66.0	59397 29.7	191362 95.7
TD Gp Hq & Hq Det	lbs tons	3153 1.6	----- -----	3153 1.6
TD Gp of 3 Bns	lbs tons	399038 199.5	178191 89.1	577219 288.6
TD Brig Hq & Hq Co	lbs tons	3354 1.7	----- -----	3354 1.7
TD Brig of 2 Gps	lbs tons	801410 400.7	356582 178.2	1157792 557.9

UNIT OF FIRE, TANK DESTROYER BN

Cal.	Weapon or Ammunition	Notes	Unit of Fire	No. of wgn.	Total U/F	
					Rounds	Weight
.30	Carbine	(1)	60	634	32040	1034
	Rifle	(2)	150	42	6300	535
	MG M1919 A4	(2)	2000	47	94000	7600
.45	Pistol	(1)	10	78	780	45
	SMG	(1)	200	56	11200	616
.50	MG EB	(2)	500	68	34000	15380
37-mm	Gun, AT	(3)	100	6	600	2910
8"	Gun, AT	(4)	75	36	2700	104794
2.35	Rocket, AT, M1	---	6	62	372	2560
	Grenade, rifle M341	---	6	42	252	680
	Projector, sig. grd.	(6)	10	15	150	195
	Pistol, pyrotechnic	(5)	10	45	450	590
	*Grenade, hand, smoke				300	725
	*Grenade, hand, fragmentation				350	700
	*Mines, AT, M1				200	2560
	*Pots, smoke				200	3400
	*Torpedoes bangalore (units)				3	310
Total weight (pounds)-----					141282	
Total weight (tons)-----					70.6	

* No units of fire for items indicated by asterisk (*) have been prescribed by the War Department for Tank Destroyer Units. The units of fire for these items in the table above have been adopted for use at the TD School for the solution of school problems only.

"The unit of fire is an arbitrary unit of measure for ammunition supply.....
The unit of fire is not synonymous with the term 'day of supply'.....
It is....not practicable to make allocations of ammunition below the army in terms of units of fire. In the initial phases of any operation, when it is necessary to speak of ammunition supply, it is perfectly logical to speak of the stocks on hand in divisions, corps, or army in terms of unit of fire; or in planning for specific operations, it is proper to speak of estimated requirements of ammunition for a large unit in terms of unit of fire. It is not proper, however, after initial allocations have been made to make allocations of ammunition for replenishment of stocks in terms of units of fire. Troops expend ammunition by rounds. They require replenishment by rounds of specific type. All allocations of ammunition for replenishment purposes will be made in terms of rounds of ammunition." (FM 9-5, Par 13d.)

AMMUNITION

NOTES

- (1) 100% Ball.
- (2) 80% AP, 20% Tracer
- (3) 75% APC, 20% HE, 5% Cannister
- (4) 75% APC, 25% HE.
- (5) 6 ea. of M11, M15, M16.
- (6) 6 ea. of M17, 18, 19, 20, 21, 22.
In lieu of the signal flares M11, M15, M16 for pistol pyrotechnic M8 or M2 or the M17-22 flares for projector, signal ground M4 flares for projector, signal, hand M9 or grenade launcher may be substituted. (Signal flares M17-22 modified for use with grenade launcher are called M-17-22 A2) See notes (5) and (6) above.
- (7) 1 unit - 10-5' sections, complete w/connectors and launching nose.
- (8) 100% ball; 90 rounds on individual; 90 rounds on vehicle in which individual rides.
- (9) 80% AP, 20% tracer. 1000 rds for each of 2 MGs per vehicle.

ABBREVIATIONS

CAL	-Car, Armored, light, M8
CAR	-Car, Armored, recovery
CAU	-Car, Armored, utility, M10: (Formerly known as car, armored, light, personnel).
FCMV	-Fuel consuming motor vehicle.
MM	-Motor maintenance
Trans.	-Transportation
exc	-Except
Torp. Bang.	-Torpedo Bangalore

WEIGHTS

Weights used in ammunition tables herein are based on complete rounds, including packing. See "Basic Ammunition Data" table on page 19.

BASIC AMMUNITION DATA FOR COMPUTATION OF LOADS

Type of Ammunition	Per box or Bundle		Weight per 1000 rds.	Maximum Load (box or bundle)			
	Rounds	Weight (lbs)	Packed (lbs)	TRUCK 1/4 ton	TRUCK 3/4 ton	TRUCK 1 ton	TRUCK 2 1/2 ton
30 cal Carbine Ball	2100	71	33.30	7	21	28	71
Rifle 03 AP Ball-Tracer	1200	100	83.23	5	15	20	50
MG AP Ball-Tracer	1350	101	80.80	5	15	20	50
45 Cal Pistol or SMG Ball	2000	110	55.00	4	13	18	45
50 Cal, MG AP-Ball-Tracer	200	72	332.26	7	20	27	69
37 mm Gun AP	20	100	5000.00	5	15	20	50
HE	20	94	4700.00	5	15	21	53
75-mm Gun APC & HE	3	71	23536.67	7	21	28	71
3 inch Gun APC	4	156	39000.00	3	9	12	32
HE	4	153	38250.00	3	9	13	32
Grenade, frangible, FS	24	58	2416.67	8	25	33	86
" hand irritant	25	49	1930.00	10	30	40	102
" " fragmentation	25	50	2000.00	10	30	40	100
" incendiary	25	66	2640.00	7	22	30	75
" offensive	50	54	1080.00	9	27	37	92
" rifle, M9A1	10	27	2700.00	18	55	74	185
Mines, antitank, M1	5	64	12800.00	7	23	31	78
Pyrotechnic Signals (for M2)	50	52	866.67	9	28	38	96
Pots, smoke, M6A1	6	102	17000.00	5	15	20	50
Rockets, antitank	20	136	6800.00	3	11	14	36
Signals ground	50	65	1300.00	7	23	30	77
Torpedoes, Bangalore (5' Sections)	1	10.5	10500.00	17	143	190	476

BASIC DATA OF CLASS I AND III SUPPLIES

Item	Unit	Weights	Remarks
Class I: A-ration	Each	5.12 lbs. net, 6.22 lbs packed Average for planning 6 lbs. per ration	Perishable --contains fresh food
B-ration	Each	Same as A-ration	Same as A-ration with non-perishable items substituted for perishables.
C-ration Pack. of 8	Each Package	4.2 lbs. 41 lbs.	Prepared meals in individual cans. 6 cans per ration.
D-ration Pack of 48 rations	Each Package	.75 lb. 51 lbs.	3 chocolate bars per ration
K-ration Pack. of 12 rations	Each Package	2.3 lbs. 43 lbs.	Non-perishable, concentrated meals in individual packages, 3 packages per ration.
Water	Gallons	For planning 52 lbs. per 5 gal. container.	
Class III: Gasoline for cooking	Gallons	For planning, 41 lbs. per 5 gal. contain.	10 gallons per day per 3 unit kitchen.
Gasoline for motors	Gallons	For planning, 41 lbs. per 5 gal contain.	
Engine oil for motors	Gallons	For planning, 46 lbs per 5 gal contain.	Approximately 3% of gasoline required.

MARCH DATA

SM	Average Time - length in min- utes of 100 vehicles	Time Length of a March Unit or Column.
2	6.75	The time-length of a march unit may be obtained by multiplying the average time-length in minutes of 100 vehicles for the appropriate SM by the number of vehicles in the march unit and dividing by 100. e.g. A company of 44 vehicles using an SM of 5 would have a time-length of $17 \times 44 \div 100$ or 7.48 minutes.
3	10.25	
4	13.75	
5	17.00	
6	20.50	
7	23.75	
8	27.25	

Average Road Space of a March Unit or Column

SM	Average Speed of Column in Miles Per Hour					
	5	10	20	25	30	
2	0.6	1.25	2.25	2.75	3.5	Approximate road space in miles of column composed of 100 vehicles.
3	1.	1.75	3.5	4.35	5.35	
4	1.25	2.25	4.5	5.75	6.75	
5	1.5	2.75	5.75	7.25	8.75	
6	1.75	3.5	6.75	8.5	10.25	
7	2.	4.	8.	10.	12.	
8	2.25	4.5	9.	11.25	13.5	

To obtain road space in miles, select the figure under the proper speed opposite the appropriate SM, multiply by the number of vehicles in the column and divide by 100.

TANK DESTROYER SCHOOL
Department of Tactics

T/O's 18-25, 26, 27 & 28
February 1, 1943

Vehicle Data - TD BATTALION**

May 18, 1943

No.	TYPE	NET	PAYLOAD	GROSS	Dimensions in inches	SQ.	CUBIC	2000	SHIP	Battalion Totals		
		WEIGHT		WEIGHT	L W H	FEET	FEET	lb Tons	TONS	Sq. Feet	DW Tonnage	Ship Tons
6	Car. Armd. L. M-3	13,300	2,700	16,000	185x89x74	114.0	705.0	8.00	17.62	684.	48.00	105.75
14	Car. Armd. Ut. M-10	13,700	1,300	15,000	197x88x78	120.4	782.2	7.50	19.55	1,685.6	105.00	273.70
3	Car. Armd. Recovery	59,000	1,000	60,000	295x103x122	211.0	2,145.0	30.00	53.62	633.	90.40	160.87
1	Compressor Air. htz.	12,000	1,000	13,000	214x86x92	128.0	979.0	6.50	24.48	128.1	6.50	24.48
36	Gun. 3" SP-M10	62,500	3,000	65,500	242x120x98	201.6	1,647.0	32.25	41.17	7,257.6	1,161.00	1,482.30
15	Motorcycle. Solo	512	200	712	90x34x42	21.3	74.3	.36	1.85	319.5	5.40	27.75
1	Trailer. $\frac{1}{2}$ T.	560	500	1,060	107x55x40	40.9	136.0	.53	3.40	40.9	.53	3.40
23	Trailer. 1 ton	1,300	2,000	3,300	145x71 $\frac{1}{2}$ x73	72.6	437.0	1.65	10.90	1,669.8	38.00	250.70
34	Truck. $\frac{1}{2}$ ton	2,325	800	3,125	129x67x71 $\frac{1}{2}$	60.0	367.5	1.56	3.80	2,040.	43.00	299.20
3	Truck. 3/4 T CMD	5,375	1,800	7,175	165x83x82	95.0	649.0	3.58	16.15	285.	10.71	48.45
7	Truck. 3/4 T W/C W/W	5,250	1,800	7,050	167x83x82	96.0	656.0	3.52	16.40	672	24.63	115.0
1	Truck. 3/4 T W/C W/W	5,550	1,800	7,350	177x83x82	102.0	697.0	3.67	17.42	702	3.67	17.42
11	Truck. 1 $\frac{1}{2}$ T 6x6	7,575	3,000	10,575	225x83x82	129.6	886.0	5.28	22.15	1,425.6	58.00	243.65
18	Truck. 2 $\frac{1}{2}$ T 6x6 W/W*	10,215	5,000	15,215	256x88x110	156.0	1,431.0	7.60	35.78	2,808	136.3	644.0
3	Truck. 2 $\frac{1}{2}$ T 6x6 W/W*	10,630	5,000	15,630	270x88x110	165.0	1,512.0	37.31	39.10	495.	23.47	117.3
1	Truck. 10 T. Wrecker	27,130	20,000	27,130	318x99x128	218.	2,222.0	13.56	55.55	218	13.56	55.55
177	TOTALS									20,464.0	1,778.34	3,869.52

** For school purposes only-Battalions should measure their vehicles & calculate data

* Long wheel base.

VEHICLE DATA - TD GROUP HQ & HQ DET *

NO	TYPE	NET	PAY-	GROSS	Dimensions	SQ.	CUBIC	2000	SHIP	Group Detachment Total		
		WEIGHT	LOAD	WEIGHT	in inches L W H	FEET	FEET	lb Tons	TONS	Sq. Feet	DW Tonnage	Ship tons
1	Trailer, 1 T	1,300	2,000	3,300	145x71 $\frac{1}{2}$ x73	72.6	437.0	1.65	10.90	72.6	1.65	10.90
1	Truck, $\frac{3}{4}$ T	2,325	800	3,125	129x67x71 $\frac{1}{2}$	60.0	357.5	1.56	8.80	60.0	1.56	8.80
2	Truck, 3/4 T CMD	5,375	1,800	7,175	165x83x82	95.0	649.0	3.58	16.15	285.0	10.74	48.45
3	Truck, 3/4 T W/C	5,250	1,800	7,050	167x83x82	96.0	656.0	3.52	16.40	283.0	10.56	49.20
1	Truck, 2 $\frac{1}{2}$ T Cargo	10,215	5,000	15,215	256x88x110	156.0	1,431.0	7.60	35.78	156.0	7.60	35.78
3	Motorcycle, Solo	512	200	712	90x34x42	21.3	74.3	.36	1.85	63.9	1.08	5.55
3	Car, Armd, Utility M10	13,700	1,300	15,000	197x88x78	120.4	782.2	7.50	19.55	361.2	22.50	53.65
15	TOTALS									1,286.7	55.69	217.33
546	Total - TD Gp of 3 TD Bns.									62,678.7	5,390.71	11,225.89

* For School Purposes only.

VEHICLE DATA - HQ & HQ CO. TD BRIGADE *

2	Car, Armd. Util. M-10	13,700	1,300	15,000	197x88x78	120.4	782.2	7.50	19.55	240.8	15.00	39.10
2	Motorcycles, Solo	512	200	712	90x34x42	21.3	74.3	.36	1.85	42.6	.71	3.70
4	Trailer, 1 ton	1,300	2,000	3,300	145x71 $\frac{1}{2}$ x73	72.6	437.0	1.65	10.90	290.4	6.60	43.60
1	Car, Scout Sub.Trk $\frac{3}{4}$ T	2,325	800	3,125	129x67x71 $\frac{1}{2}$	60.0	357.5	1.56	8.80	60.0	1.56	8.80
1	Truck, 3/4T CMD	5,375	1,800	7,175	165x83x82	95.0	649.0	3.58	16.15	95.0	3.58	16.15
1	Truck, 3/4T W/C	5,250	1,800	7,050	167x83x82	96.0	656.0	3.52	16.40	96.0	3.52	16.40
3	Truck, 1 $\frac{1}{2}$ T 6x6	7,575	3,000	10,575	225x83x82	129.6	886.0	5.28	22.15	388.6	15.84	66.45
1	Truck, 2 $\frac{1}{2}$ T, Cargo	10,215	5,000	15,215	256x88x110	156.0	1,431.0	7.60	35.78	156.0	7.60	35.78
15	TOTALS									11,369.6	54.41	229.93
1,107	Total TD Brig. of 2 Groups									126,727.0	10,835.83	23,681.76

* For School Purposes only.