



MORTAR FIRE CONTROL SYSTEM



FORMS BOOK

**UNITED STATES ARMY INFANTRY SCHOOL
INFANTRY MORTAR LEADER COURSE
MTR CO 1ST BATTALION 19TH INFANTRY REGIMENT
FT. BENNING, GEORGIA 31905
AUGUST 2021**

NOTES

LHMBC/MFCS DATA SHEET

For use of this form, see TC 3-22.91; The proponent agency is TRADOC.

[illegible]

[illegible]

DAY 1 CLASSROOM SET-UP DATA**UNIT LIST**

<u>Unit Name</u>	<u>URN</u>	<u>Long Name</u>	<u>Device</u>	<u>CONFIG</u>
A1	613000	A1 2/7 IN	GUN	Role: FDC
A2	614000	A2 2/7 IN	GUN	This Unit Is: FDC
A3	615000	A3 2/7 IN	GUN	Controlling FSE: FSE1
A4	616000	A4 2/7 IN	GUN	Commo: VMF 6017A (SWB2)
FDC	612000	FDC 2/7 IN	FDC	FBCB2 Connection: NONE
FOS1	617000	HHC FOS1	FO	Mode: TRAINING
FSE1	618000	HHC FSE	FSE	☒ COMMO EMULATION

DATA

Date/Time: ?

Datum: WGS 1984

Audio Alarm: OFF

Target Prefix: AB

Target Number: 0001-0100 next 0001

POSITION**FDC - This Unit Position**

<u>Unit Name</u>	<u>Easting</u>	<u>Northing</u>	<u>Alt</u>	<u>Zone</u>	<u>SQR</u>	<u>Datum</u>
FDC	49950	34950	0374	16R	GA	WGE

Position Data Source: Manual**GUN/FO's - Other Unit Position**

<u>Unit Name</u>	<u>Easting</u>	<u>Northing</u>	<u>Alt</u>	<u>Zone</u>	<u>SQR</u>	<u>Datum</u>
A1	49910	35125	0374	16R	GA	WGE
A2	49910	35050	0374	16R	GA	WGE
A3	49910	34975	0374	16R	GA	WGE
A4	49910	34900	0374	16R	GA	WGE
FOS1	47200	34700	0445	16R	GA	WGE
FSE1	47200	34700	0445	16R	GA	WGE

MAZ REF: For all guns: 6000 REF: 2800**CHANNEL A****Chn A Net Parameters****DEVICE**

SINGGARS SIP, RT1523 C/D,

RT-1739C

RADIO MIX

2- SINGGARS, PRC-152

CONFIGURATION

231-SINGGARS_16000_PT_FH

NUMBER OF STATIONS

10

NET USAGE

VOICE & DATA

CHANNEL A PLATOON**!!!DISABLE CHANNEL A!!!**

<u>Unit Name</u>	<u>En</u>	<u>IP Address</u>	<u>Adr</u>
FDC	☒	172.010.029.006	06
A1	☒	172.010.029.009	09
A2	☒	172.010.029.007	07
A3	☒	172.010.029.008	08
A4	☒	172.010.029.010	10

CHANNEL B FIRES**!!!DISABLE CHANNEL B!!!**

<u>Unit Name</u>	<u>En</u>	<u>IP Address</u>	<u>Adr</u>
FDC	☒	172.010.002.007	06
FOS1	☒	172.010.002.005	05
FSE1	☒	172.010.002.004	04

Ammo by Unit**WEAPON M121 CARRIER TEMP 70**

<u>Unit</u>	<u>Lot</u>	<u>Shell</u>	<u>Lot Number</u>	<u>Quantity</u>
A1/2/3/4	A	HE M934A1	1234	100
A1/2/3/4	B	IL M930	4567	100
A1/2/3/4	C	WP M929	8901	200

GRID MISSION

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

[illegible]

SHIFT MISSION

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

[illegible]

POLAR MISSION

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

[illegible]

QUICK FIRE MISSION

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

[illegible][illegible]

AIM POINT GRID:

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE.

APD LC v1.00

LHMBC/MFCS DATA SHEET

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[illegible]

[illegible]

DAY 2 CLASSROOM SET-UP DATA

UNIT LIST

<u>Unit Name</u>	<u>URN</u>	<u>Long Name</u>	<u>Device</u>	<u>CONFIG</u>
A1	613000	A1 2/7 IN	GUN	Role: GUN/FDC
A2	614000	A2 2/7 IN	GUN/FDC	This Unit Is: A2, Controlling FDC: A2
A3	615000	A3 2/7 IN	GUN	Controlling FSE: FSE1
A4	616000	A4 2/7 IN	GUN	Commo: VMF 6017A (SWB2)
FDC	612000	FDC 2/7 IN	FDC	FBCB2 Connection: NONE
FOS1	617000	HHC FOS1	FO	Mode: TRAINING
FSE1	618000	HHC FSE	FSE	☒ COMMO EMULATION

DATA

Date/Time: ?

Datum: WGS 1984

Audio Alarm: OFF

Target Prefix: AB

Target Number: 0001-0100 next 0001

POSITION

FDC - This Unit Position

<u>Unit Name</u>	<u>Easting</u>	<u>Northing</u>	<u>Alt</u>	<u>Zone</u>	<u>SQR</u>	<u>Datum</u>
A2	49910	35050	0374	16R	GA	WGE

Position Data Source: Manual

GUN/FO's - Other Unit Position

<u>Unit Name</u>	<u>Easting</u>	<u>Northing</u>	<u>Alt</u>	<u>Zone</u>	<u>SQR</u>	<u>Datum</u>
A1	49910	35125	0374	16R	GA	WGE
A3	49910	34975	0374	16R	GA	WGE
A4	49910	34900	0374	16R	GA	WGE
FDC	49950	34950	0374	16R	GA	WGE
FOS1	47200	34700	0445	16R	GA	WGE
FSE1	47200	34700	0445	16R	GA	WGE

MAZ REF: For all guns: 6000 REF: 2800

CHANNEL A

Chn A Net Parameters

DEVICE

SINGGARS SIP, RT1523 C/D,

RT-1739C

RADIO MIX

2- SINGGARS, PRC-152

CONFIGURATION

231-SINGGARS_16000_PT_FH

NUMBER OF STATIONS

10

NET USAGE

VOICE & DATA

CHANNEL A PLATOON

!!!DISABLE CHANNEL A!!!

<u>Unit Name</u>	<u>En</u>	<u>IP Address</u>	<u>Adr</u>
FDC	☒	172.010.029.006	06
A1	☒	172.010.029.009	09
A2	☒	172.010.029.007	07
A3	☒	172.010.029.008	08
A4	☒	172.010.029.010	10

CHANNEL B FIRES

!!!DISABLE CHANNEL B!!!

<u>Unit Name</u>	<u>En</u>	<u>IP Address</u>	<u>Adr</u>
FDC	☒	172.010.002.007	06
FOS1	☒	172.010.002.005	05
FSE1	☒	172.010.002.004	04

Ammo by Unit

WEAPON M121 CARRIER TEMP 70

<u>Unit</u>	<u>Lot</u>	<u>Shell</u>	<u>Lot Number</u>	<u>Quantity</u>
A1/2/3/4	A	HE M934A1	1234	100
A1/2/3/4	B	IL M930	4567	100
A1/2/3/4	C	WP M929	8901	200

SAFETY FAN #1 SEGMENT 1 WPNS (ALL)

ZONE	SQR
GRID	
HE WP	ILL IR
LLAZ	RLAZ
MIN RNG	MAX RNG
MIN CHG	MAX CHG

SAFETY FAN #1 SEGMENT 2 WPNS (ALL)

ZONE	SQR
GRID	
HE WP	ILL IR
LLAZ	RLAZ
MIN RNG	MAX RNG
MIN CHG	MAX CHG

SAFETY FAN #1 SEGMENT 3 WPNS (ALL)

ZONE	SQR
GRID	
HE WP	ILL IR
LLAZ	RLAZ
MIN RNG	MAX RNG
MIN CHG	MAX CHG

SAFETY FAN #2 SEGMENT 1 WPNS (A1 & A4)

ZONE	SQR
GRID	
HE WP	ILL IR
LLAZ	RLAZ
MIN RNG	MAX RNG
MIN CHG	MAX CHG

MET DATA

OCTANT	STATION	MDP		
HEIGHT	PRESSURE	LAT	LONG	
0	37	977	347	900

LINE	ALT	DIR	SPEED	TEMP	PRESSURE
0	0	160	7	2900	977
1	200	187	11	2887	965
2	500	220	15	2878	937
3	1000	248	17	2868	893
4	1500	278	13	2852	842
5	2000	320	11	2830	793
6	2500	362	13	2796	746
7	3000	378	16	2766	701
8	3500	384	17	2737	659
9	4000	399	20	2705	641
10	4500	415	18	2685	625

CELLS CHANGE COLORS TEMPORARILY WHILE ENTERING DATA:

- (1) ORANGE CELLS SHOW A TREND LIMIT WARNING - YOU EXCEEDED THE TREND LIMITS.**
- (2) RED CELLS SHOW A TREND LIMIT ERROR – INCORRECT DATA WAS ENTERED.**

ONCE YOU’VE COMPLETED ALL DATA ENTRY FOR THE NEW MET, IF THE SCREEN SHOWS ORANGE CELLS, THE TREND LIMITS HAVE BEEN EXCEEDED. VERIFY TREND LIMITS WITH MDP. RED CELLS INDICATE YOU HAVE ENTERED THOSE VALUES INCORRECTLY, AND MUST RE-ENTER THE CORRECT VALUE. THEN SAVE AND APPLY NEW MET.

NFA (NO FIRE AREAS)

NAME	START TIME	END TIME	HE	WP&RP	IL&IR
NFA1	???????	?????			
NFA2	???????	?????			

TYPE: SHAPE 3 OF 3 POINTS

Easting	Northing	Zone	Datum	Hemisphere
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Note: This point requires a minimum of three grids.

TYPE: CIRCLE

Radius	Easting	Northing	Zone	Datum	H/P
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Note: This requires one grid point and a radius.

FLOT

EST UNIT	NAME	START TIME	END TIME
FSE1	HOG	CURRENT	1700
Easting	Northing	Zone	Datum
	H/P		

TLW (DA Form 4655-R)

APP 1 (TGT LIST WORKSHEET TO ANNEX D (FIRE SUPPORT) TO OPORD 2-98 2/29 IN (L))											
TARGET LIST WORKSHEET AS OF: DTG											
LINE NO	TARGET NO	DESCRIPTION	LOCATION	ALT	ATT	SIZE		SOURCE ACCURACY	REMARKS	A	B
						L	W				
01	AB0020	RP	54590/383670	380				S2			
02	AB0025	Road Intsec.	54935/383675	370	900	300	75	S2			
03	AB0030	FPF	54705/383605	380	1400	300	75	S2	120mm FPF		
04	AB0035	Hill 231	54700/383800	400	800	400	75	S2	Smoke / 8 min dur.		
05	AB0040	MRP	54600/38370	300				S2	2 RDS 155 DPICM	X	
06	AB2045	MRP	54591/383690	130				S2	2 RDS 155 DPICM	X	
07											
08											
09											
10											
11											
12											
13											
14											

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[illegible]

CONVERGE MISSION

COMPUTER'S RECORD

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[illegible]

SPECIAL SHEAF

COMPUTER'S RECORD

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[illegible]

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[illegible]

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
BATTLE DAMAGE ASSESSMENT (BDA):					AIM POINT GRID:						

[illegible]

DAY 3 CLASSROOM SET-UP DATA**UNIT LIST**

<u>Unit Name</u>	<u>URN</u>	<u>Long Name</u>	<u>Device</u>	<u>CONFIG</u>
A1	613000	A1 2/7 IN	GUN	Role: GUN/FDC
A2	614000	A2 2/7 IN	GUN/FDC	This Unit Is: A2, Controlling FDC: A2
A3	615000	A3 2/7 IN	GUN	Controlling FSE: FSE1
A4	616000	A4 2/7 IN	GUN	Commo: VMF 6017A (SWB2)
FDC	612000	FDC 2/7 IN	FDC	FBCB2 Connection: NONE
FOS1	617000	HHC FOS1	FO	Mode: TRAINING
FSE1	618000	HHC FSE	FSE	☒ COMMO EMULATION

DATA

Date/Time: ?

Datum: WGS 1984

Audio Alarm: OFF

Target Prefix: AB

Target Number: 0001-0100 next 0001

POSITION**FDC - This Unit Position**

<u>Unit Name</u>	<u>Easting</u>	<u>Northing</u>	<u>Alt</u>	<u>Zone</u>	<u>SQR</u>	<u>Datum</u>
A2	49910	35050	0374	16R	GA	WGE

Position Data Source: Manual**GUN/FO's - Other Unit Position**

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A3	49910	34975	0374	16R	GA	WGE
A4	49910	34900	0374	16R	GA	WGE
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FOS1	47200	34700	0445	16R	GA	WGE
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MAZ REF: For all guns: 6000 REF: 2800**CHANNEL A****Chn A Net Parameters****DEVICE**

SINGGARS SIP, RT1523 C/D,

RT-1739C

RADIO MIX

2- SINGGARS, PRC-152

CONFIGURATION

231-SINGGARS_16000_PT_FH

NUMBER OF STATIONS

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NET USAGE

VOICE & DATA

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A4	☒	172.010.029.010	10

CHANNEL B FIRES**!!!DISABLE CHANNEL B!!!**

<u>Unit Name</u>	<u>En</u>	<u>IP Address</u>	<u>Adr</u>
FDC	☒	172.010.002.007	06
FOS1	☒	172.010.002.005	05
FSE1	☒	172.010.002.004	04

Ammo by Unit**WEAPON M121 CARRIER TEMP 70**

<u>Unit</u>	<u>Lot</u>	<u>Shell</u>	<u>Lot Number</u>	<u>Quantity</u>
A1/2/3/4	A	HE M934A1	1234	100
A1/2/3/4	B	IL M930	4567	100
A1/2/3/4	C	WP M929	8901	200

FPF MISSION 1

COMPUTER'S RECORD

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[illegible]

COMPUTER'S RECORD

For use of this form, see TC 3-22.91: the proponent agency is TRADOC

[illegible]

COMPUTER'S RECORD

[illegible]

COMPUTER'S RECORD

For use of this form, see TC 3-22.91: the proponent agency is TRADOC

[illegible]

DIRECT LAY MISSION

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

[illegible]

BATTLE DAMAGE ASSESSMENT (BDA):	
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AIM POINT GRID:

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE.

APD LC v1.00

NOTES

NOTES