Image Cover Sheet

CLASSIFICATION	SYSTEM NUMBER 140020
UNCLASSIFIED	
TITLE	
AREA SHEET WITH 25 PDR. BE/CHEMIC	CAL SHELL CHARGED HBF \(1.5% PERSPEX\)
System Number:	
Patron Number:	
Requester:	
Notes:	
DSIS Use only:	
Deliver to:	
1	1

140020 52-4545

DOCUMENT RECLASSIFICATION RECORD

1

		a Shoot with 25 pdr.	
Shell Charged F	BV (1,5% Perspex)		
Author(s)J.3	. Hugill	Date	Jul 43
Original Classificati	on <u>Secret</u>		
Limitation			
		· -	
Harvey Recommendation	unclassified		_ .
Limitation <u>Un</u>	limited	Clause	
Deletions			
Reviewed byC.			
Classification			
Limitation			
Official Warning Ter	-m		
This Document may be	released as is un	der ATI:	
Deletions required			
ATI		Clause	
Other Requesters _			
I concur		5/97- eeting	8/7/9 Date

1176. 4854-27-13-10Vas

UNCLASSIFIED UNLIMITED

SUFFIELD.

COPY NO. 4 Lissification / Dath July, 1943

Changed to / Remplacés par

EXPERIMENTAL STATION By Authority of Sur l'Autorieution de

Date 25 Feb 98

ALTA.

142 pointment FIELD EXPERIMENT NO. Onetton

Area Shoot with 25 pdr. BE/Chemical Shell charged HBV

REFERENCE

Priority Programme No. 5 - Item IV - 4(c)

OBJECT

languages agency of the east of the

(a) To check the ammunition expenditure of 10 rounds per 100 yerds by 100 yards necessary to achieve anti-personnel effects with the 25 pdr. BE/Chem. shell charged HBV (perspex 1,5%) under hot weather conditions.

(b) Determine whether this expenditure produces any vapour and/ or contact hazard under such onditions.

METEOROLOGICAL CONDITIONS

Windspeed - below 20 m.p.h. Wind direction - Any Temperature - (a) 70 - 85°F. (b) Above 85°F.

Absence of precipitation.

SITE

Artillery Target Area C-3

TIME

As soon as possible.

MATERIAL

300 rounds 25 pdr. BE/CHem. Shell Mk. I charged (1.5% Perspex 12p, 4 - 25 pdr. Mk. 11 guns.

PROCEDURE

- Layout will be as in Appendix 1. l,
- The target zone will be engaged by searching and sweeping on nine points of origin.
- Four guns will engage the target zone firing one round per gun perpoint of origin, for first searching and aweeping and two rounds per gun per point of origin for successive searching and sweeping. (Seven rounds/ gun per point of origin.)
- The guns will be spaced at 50 yards. If the wind is uncertain at the target, no correction will be made for drift of droplets, the shell being fired to burst over each point of origin. If the wind is above 5 m.p.h 50% will be added to the range table correction for drift of droplets.
- Range will be 8,000 yards, giving 150 yards searching and 10 sweeping.
- Injectors will be turned on immediately prior to firing and will be changed as follows:
 - (a) Immediately after the shoot.
 - (b) From zero to zero plus 60 min. (where zero . time of end of shoot). Inlet of bubblers will be curved downard to prevent entrance of liquid.
- Persistence tests, ten positions, will be made at zero plus twelve hours by Chem. S. in consultation with P. & M.S.

- Thirty Livens drums will be placed in the target area prior to 8. the shoot. Observers under the direction of Phys. S. will carry the drums off the area as soon as possible after the shoot.
- One dummy dressed in German uniform will be placed in each trench in a crouching position and two dummies will be placed on the ground in each row in a lying or crouching position. Immediately after the shoot, the suit will be removed and placed on observers with the least possible delay. It is important that the change of uniform from the dummies to the observers be carried out as quickly and as soon as possible after cease firing. Dummies are to be placed in such a position that the shoulders and head will be just below ground level.
- Heights of burst will be taken from two points by P. & M.S. 10,
- O. M. & E. will report the number of shell going to graze. (Two 11. observers).
- The usual meteor data will be recorded throughout the trial. 12.

ADMINISTRATION

Section in charge of trial - M.E.O.

Section responsible for final report - C.E.O.

Decision as to time of trial, transport, final report. C.E.O. Conduct of shoot, layout, trenches, provision and placing M.E.O.

P. & M.S.

of dummies. Report.
Meteor data, heights of burst. Report.
Supervision and handling of observers. Report. Phys. S.

Charging of shell. Temperature of shell charging - number of O.M. & E.

shell going to graze. Report.

Provision, placing and operation of sampling equipment. Chem. S.

Persistence tests.

Experimental Station,

Suffield, Alta.,

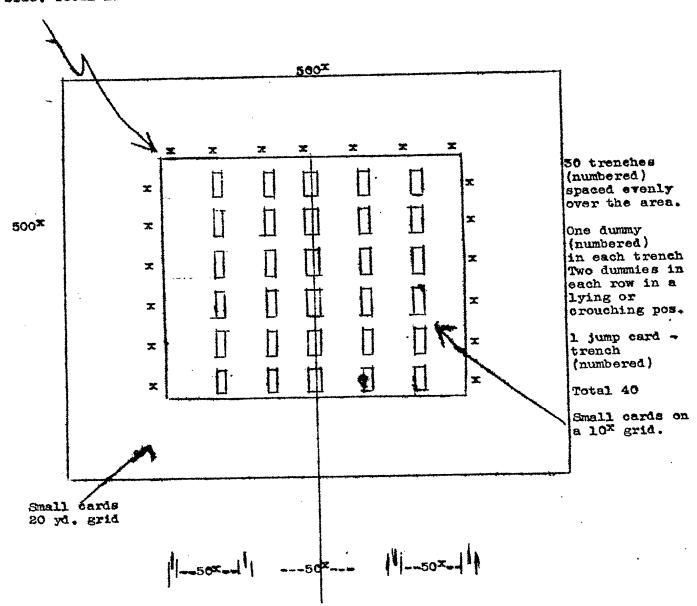
JTH/TJ

127

A STATE OF THE STA

12.

Injectors at 56^X spacing 6 on each side. Total 18



POSTAMBURO DEPENDENT TOTAL.

STATE OF THE ST

#14002.0

Date Tell 16 1853

 $\alpha \ i = t + \cdot$

DEPENCE SCHENFIFE INFORMATION STRIVED INFORMATION STRIVED INFORMATION DEPOSIT OF THE SECOND IN THE S

ish carry - Ref vile / yours,