Declassified in Part - Sanitized Copy Approved for Release 2013/08/08 : CIA-RDP80T00246A030100290001-5 ี่ รบัง 1 REPORT REPORT INFORMATION INFORMATION CENTRAL INTELLIGENCE AGENCY 50X1 This material contains information affecting the National Defense of the United States within the meaning of the Esplonage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law. 50X1-HUM **USSR** COUNTRY **REPORT** 50X1 28 February 1963 Heavy Rocket Artillery - T.R.A. DATE DISTR. **SUBJECT** 9 O. PAGES RD EFERENCES 50X1-HUM DATE OF INFO. PLACE & 50X1-HUM DATE ACQ. THIS IS UNEVALUATED INFORMATION. SOURCE GRADINGS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE. 3 3 GROUP 1 2 EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION SECRET 1 10 STATE NAVY AIR 29 NSA DIA AXJCS50X1-HUM 6 **5** NPIC 50X1-HUM 6 JAG NIC ONE OSI (Note: Washington distribution indicated by "X"; Field distribution by

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	Heavy Rock	et Artillery			Ċ	
		Artilleriy	a - T. R. A.		•	
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bu fi	The Soviet And the separate complinished form is P.).	ponents of rou	nds; in other	words, T.R.	A. in its	/ <b>&amp;-</b>
2.	Free rockets	are sometimes	called proje	ectiles (snar	yad). Guided	
mi	issiles are some	etimes called	articles (izo	leliye).	•	
3•	Bases and are	senals of the	Soviet Army			
	First type -	arsenals of a	rtillery amm	nition	<u>, :</u> ]	· · · · · · · · · · · · · · · · · · ·
		- central arti		<b>3</b> .	300	
· .		central artil				
		(mortar)				:
	Fourth type -	central arti	llery bases o	of category 2	• (of depot	
•		· ·		.*	1.7	
	Firth type -	central artili (storage of co	lery ammuniti omponenta)	on bases of	the T.R.A.	· ·
	Sixth type -	central artil	lery bases fo	or powder.	• • •	
•	Seventh type	- central cate	egorized ammu	nition bases		• •
	Eighth type -	· central asser	mhilly holens as	2 4b - 11 12 4	<b>(</b>	- 1
	mignon type -	of warheads, complete rock	separate cha	mbers, but no	ot of the	
4.	There is a fr	ee rocket call	led the Tuna	- characteric	atica eme not	: 1
kn	own. Range - u	up to 60 kms.		- Character 1	ores are not	_
						50X
		•	-2-			
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, Alley			4.4			;"1
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13. The height of trajectory of a "3R1" is 9 kms, and of "3R2", 22 kms.

14. There are T.R.A. brigades. In a brigade there are 3 battalions, in a battalion, 3 batteries. In "3R1", "3R2", and "3R3" batteries there are 2 launcher mounts (ustanovka), and in a "3R7" battery there are 4 launcher mounts.

## Fire-power of a salvo of a T.R.A. battalion

"3R1" - 3 batteries with 2 launcher mounts, a total of 6 rockets in a battalion salvo.

"3R2" 11. 3 batteries with 2 launcher mounts, a total of 6 rockets and "3R3" in a battalion salvo.

"3R7". 3 batteries with 4 launcher mounts in each battery (with 6 launchers on each launcher mount), a total of 72 rockets in the salvo of a battalion.

## 15. Rate of fire

\*3R1" - 5 minutes for one firing

"3R2" and "3R3" - 20-30 minutes for one firing

"3R7" - 10-15 minutes for one salvo

## 16. Atomic artillery weapons

Characteristics of the Atomic Artillery Weapons		Artillery Systems 310 mm. cannon 420 mm. mortar (rifled) (smooth-bore)		
1,+	Maximum range	25 kms.	· 22 kms	
2.	Weight of the system in firing position	64 tons	55 tons	
3•	Rate of fire	l firing every 5 min.	l firing every 8 min.	
4.	TNT equivalent	5-30 kilo-tons	* 5-30 kilo-tons	
5•	Means of traction	On an IS-3 base	On an IS-3 base	

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6.	Speed of movement	30 kms. per hour	30 kms. per hour
7•	Dispersion • (Vd - range probable error)	1/500	1/500
	(Vb - direction probable error)	1/1500	1/1500
8.	Time to transfer from traveling to firing position	8-10 minutes	8-10 minutes
9.	Time for preparation to open fire	15-20 minutes	15-20 minutes

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<sup>\*</sup> There is not yet a 1 kilo-ton weapon in the Soviet Army.
A battalion (2 batteries) has either 4 cannons of 310 mm. caliber or 4 mortars of 420 mm.

