

Table Sov Res Database 1												
Created by Nigel Askey, 12/08/2008												
Soviet Non-Mobile Weapon Systems and Squads (Stationary, Towed, or Carried Weapons and Squads)												
	Relative Overall	Relative Overall	Effective Combat Range	Relative Anti Personnel Value	Relative Anti Armour Value	Relative Anti Aircraft Value	Relative Fortification Destruction Effect	Relative Assault Att Str	Relative Assault Def Str	Relative Overall Mobility	Relative Supply Demand	
Light Infantry Weapons name/designation	(ATT)	(DEF)	km, (R) ^	(APer)***	(AT)** ^	(AA)**	(FDE)** ^	(AAS)*	(ADS)	(MOB)***	(SDF)	
Light Machine Gun, DP 1928.	1	1	1	1	1	1	1	1	1	3	0.27	
Medium Machine Gun, Maxim 1910.	2	1	1	2	1	1	1	1	1	1.3	0.52	
Mosin-Nagant, M1930G (7.62mm Bolt Action Rifle)											0.04	
Sub Machine Gun, PPSH-1941G.											0.17	
Revolver, Nagant Model 1895.											0.04	
Grenade, Model 1914/30 (Stick Hand Grenade)											0.06	
Fragmentation Grenade F-1, (Egg Hand Grenade)											0.06	
Light Infantry Weapon Equipped Squads												
11-12 man Sqd with DP 1928 LMG	2	5	1	3	1	1	1	5	10	3	0.87	
11-12 man Sqd with no LMG	2	5	1	2	1	1	1	4	10	3	0.63	
11 man Sqd, all with sub machine guns	2	5	1	2	1	1	1	4	10	3	2.08	
12 man Mounted Sqd and DP 1928 LMG	2	3	1	2	1	1	1	4	6	11	1.92	
8 man Motorcycle Sqd and DP 1928 LMG	2	3	1	2	1	1	1	4	6	31	1.91	
2x9 man Eng Squds with no lmg/10 man Flame Squad	2	5	1	3	1	1	6	5	10	2.5	1.20	
5 man Bridging Eng Sqd with no LMG	1	3	1	1	1	1	1	2	5	2.1	0.28	
5 man NKVD Sqd with no LMG	1	3	1	1	1	1	1	2	5	3	0.59	
10 man Militia/Construction Sqd with no LMG.	1	5	1	1	1	1	1	2	10	2.8	0.43	
5 man Rail Construction/Repair Sqd with no LMG	1	2	1	1	1	1	1	2	5	2.1	0.22	
Heavy Infantry Weapons name/designation												
PTRD 1941, (14.5mm Anti Tank Rifle)	1	1	1	1	2	0	2	1	1	2.4	0.08	
50mm Mortar, M1941.	2	1	1	2	1	0	4	2	1	3	1.7	
82mm Mortar, M1941.	5	1	2	5	1	0	10	3	1	1.5	5.9	
120mm Mortar, M1938.	9	1	6	9	1	1	21	5	1		18.5	
107mm Mortar, M1938.	7	1	3	6	1	1	16	4	1		12.9	
76.2mm M1927/39 Regimental Gun	8	2	3	9	1	0	17	4	2	0.5	9.7	
45mm M1937 Anti Tank Gun	5	2	1	3	5	0	12	3	2	0.8	4.6	
57mm M1941 Anti Tank Gun**	8	2	1	5	9	1	14	4	2	0.5	7.1	
Soviet Non-Mobile Weapon Systems and Squads (Stationary, Towed, or Carried Weapons and Squads)												
Artillery Weapons name/designation												
76.2mm M1939 (F22-USV) Gun	10	1	12	10	1	1	21	3	2	0.4	9.7	
76.2mm M1938 Mountain Gun	6	1	8	7	1	1	17	2	2	0.6	9.7	
152mm M1909/30 Howitzer	13	2	9	14	1	1	50	4	2		26.0	
122mm M1910/30 Howitzer	11	2	9	12	1	1	35	3	2	0.3	21.2	
122mm M1931 (A-19) Gun	21	2	19	22	1	1	48	6	2		24.4	
107mm M1910/30 Gun	16	2	15	17	1	1	39	4	2		19.7	
152mm M1937 (ML-20) Gun-Howitzer	21	2	16	22	1	1	63	6	2		28.4	
203mm M1931BM (B-4) Howitzer	14	2	17	15	1	1	90	4	2		32.1	
280mm M1939 (BR-5) Mortar	7	2	10	8	1	1	129	2	2		46.5	
152mm Kanet Guns	11	4	14	14	1	1	60	3	4	Immobile	28.4	
356mm Naval Rail Guns, (TM-1-14).	7	4	23	10	1	2	252	2	4		88.2	
305mm/40 Naval Rail Guns, (TM-2-12 or TM-3-12)	9	4	19	12	1	2	204	3	4		79.0	
180mm Rail Gun, (TM-1-180)	18	4	18	21	1	1	83	5	4		32.8	
305mm M1915 Howitzers	6	2	9	7	1	2	148	2	2		55.4	
210mm M1939 (BR-17) Gun	13	3	27	15	1	2	110	4	3		39.1	
305mm M1939 (BR-18) Gun-Howitzer	7	2	15	8	1	2	164	2	2		55.4	
Rocket Artillery Weapons name/des												
BM-8-36, 82mm rocket launcher.	5	1	6	5	1	1	4	2	1		21.5	
BM-13-16, 132mm rocket launcher	16	1	8	16	1	1	14	4	1		40.9	
Anti Aircraft Weapons name/designation												
DShk 1938 12.7mm HMG/AAMG	3	1	1	3	2	1	2	2	1	1.4	0.8	
Maxim 1910 7.62mm MMG X 4, Quad AAMG.	3	1	1	3	1	2	1	2	1		1.1	
37mm M1939 (61-K) Anti Aircraft Gun.	8	1	1	8	4	3	8	4	2		2.4	
85mm M1939 Anti Aircraft Gun	32	2	2	33	13	6	29	17	2		15.8	
* A weapon system crew, squad or MFM, with no LMG or larger gun, must have at least 5 Rifles or SMGs to have this combat attribute greater than zero.												
^ For direct fire weapons the maximum effective combat range is 3 kms.												
** For AT weapons (i.e. Anti Tank Guns and AT Rifles), the APer value is /2, as these weapons fire mainly AP and APHE ammunition and relatively little HE ammunition.												
^^ AT for artillery weapons is calculated for indirect fire only. If forced to use in direct fire against armour, the AT value is 0.33 times its ATT value provided APHE (Armour Piercing High Explosive), or HEAT (High Explosive Anti Tank), rounds were developed and are available for the weapon.												
^^ AA factor is calculated using only WCPCs for weapons capable of firing at aircraft (i.e. the WCPC for all types of grenades, rifle grenades, flamethrowers, demolition charges etc, are not included).												
For non AA weapon systems, the squad or weapon system crew must have at least 1 LMG, 5 Rifles or 5 SMGs to have an AA Factor greater than zero.												
The Multi Barrelled Effect (MBE) rules do not apply to WCPC values, used for calculating AA values for multi barrel AA guns.												
^^ Squads must have more than 10 stick hand grenades to have a FDE value greater than 1.												
Flamethrowers FDE factor is calculated assuming a "projectile mass" equivalent to the 200mm howitzer i.e. approximately 112kg.												
All squads close assaulting, have their FDE factor multiplied by 4.												
*** MOB Factor is calculated without additional transport, (i.e. can be carried or moved by the Squad or weapon crew).												
The weight in action must be less than 1500kg. The weapon system must have permanently attached wheels ready for movement or be light enough to be carried by one man.												
The MOB cannot exceed the value of 3, i.e. that of walking pace if the weapon is carried.												
**** Only 320 of these guns were produced in 1941 before production stopped. The 1941 production gun had major technical problems relating to accuracy and shot stability, mainly due to barrel rifling problems/errors during design and manufacture. In this case the Relative Anti Armour Value (AT) is multiplied by the gun Accuracy Factor (A).												
**** The 76.2mm M1939 Cannon was often designated an AT gun. As such this gun is exempt from the rule regarding indirect fire artillery i.e. AT value is 0.33 X ATT value.												
The 76.2mm M1939 could penetrate 49mm of 30deg armour at 1000m with APHE ammunition. Using an FCE factor of 0.76 this gives it an AT value of 5 when used as an AT gun.												
**** 85mm M1939 Anti Aircraft Gun AA value is against medium to high altitude aircraft, so typical Target Dispersion Factor (TDI) is 4000 against aircraft, (as opposed to 3000 against ground targets).												
Note, the TDI value for light flak firing at low altitude aircraft is still 3000, which is used to calculate the AA value for non HMG weapons up to 40mm.												