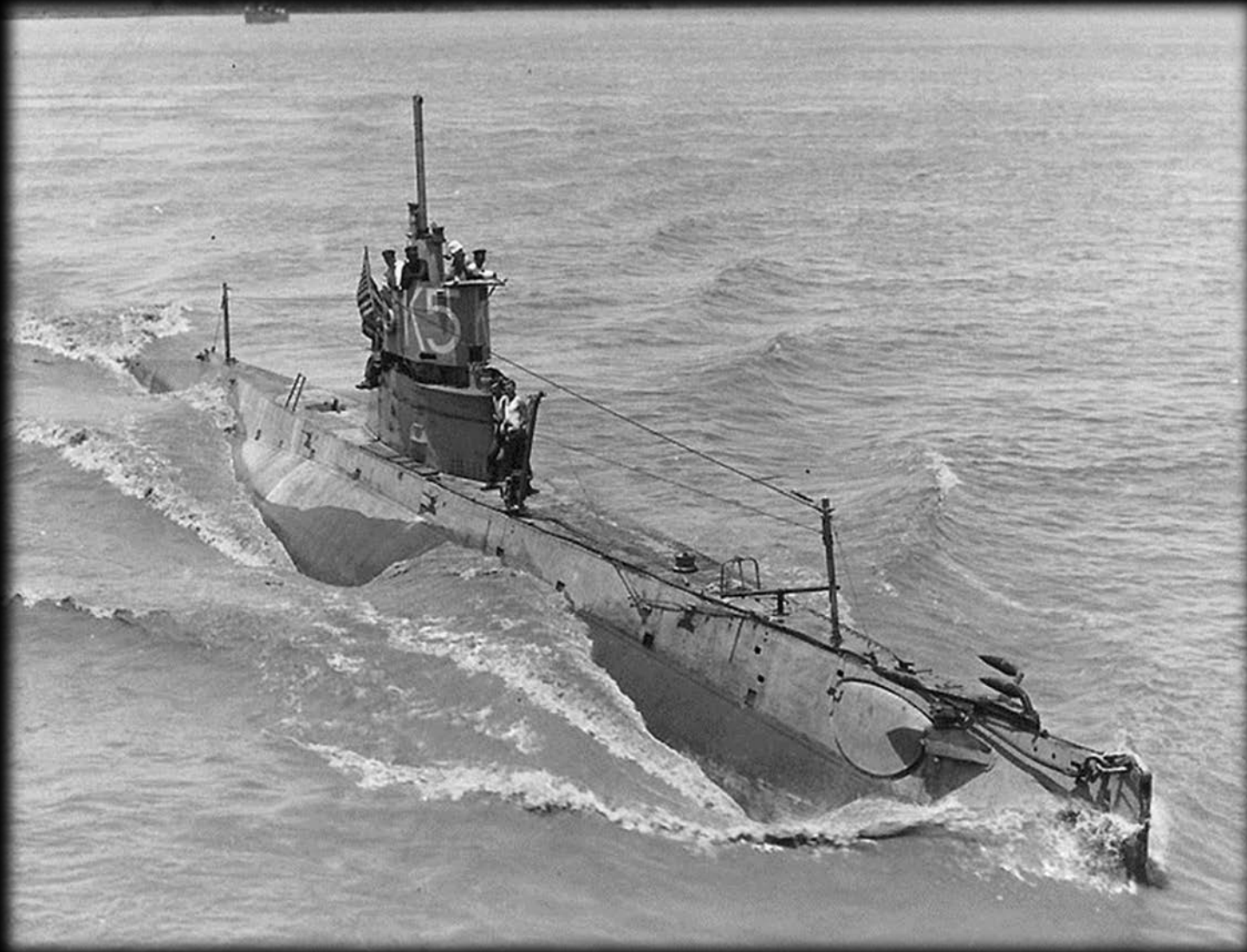


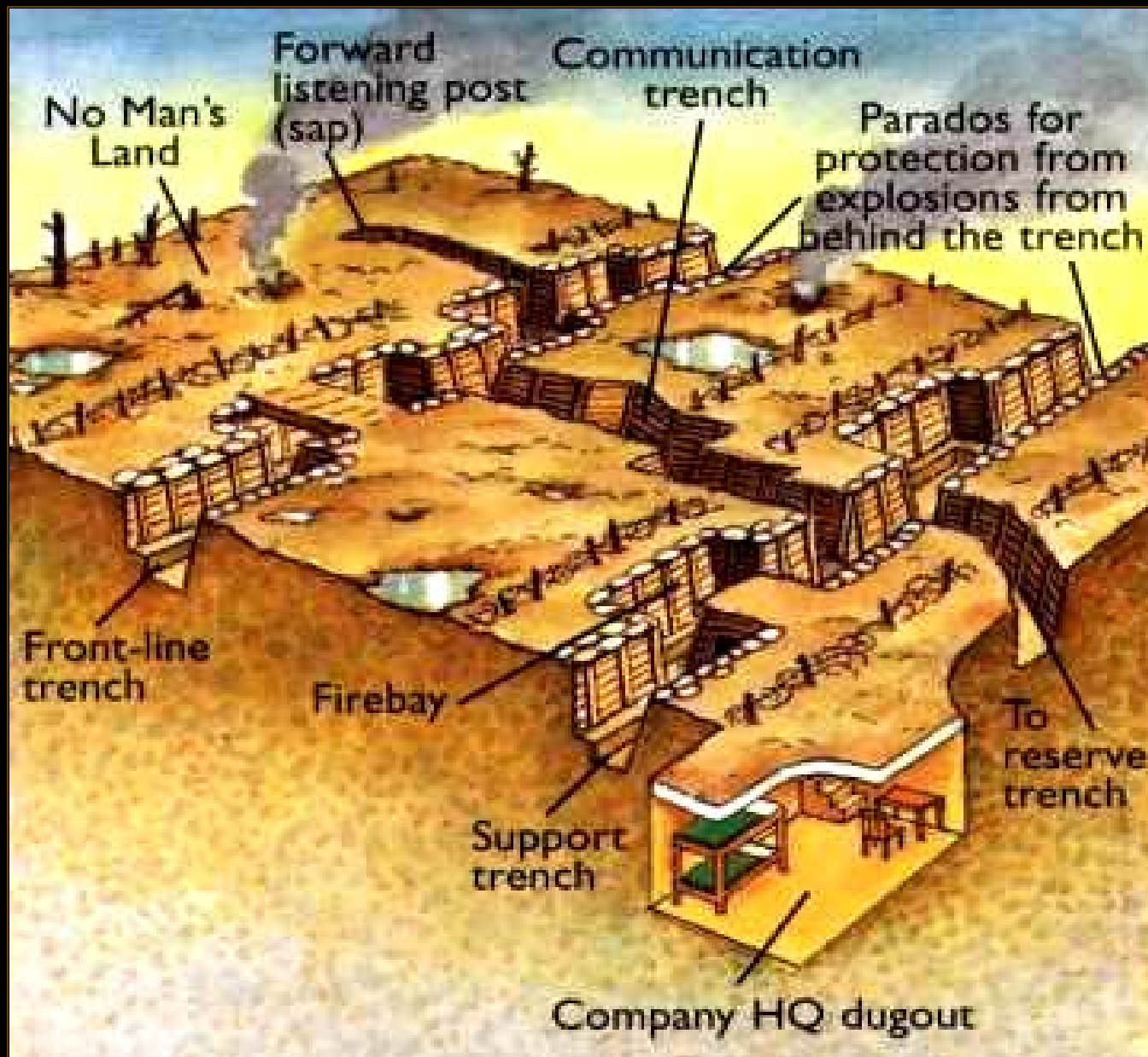
World War I Technology



Trenches

- Built to protect against constant attack
- War from the ditches
- Space between opposing trenches – “no man’s land”
- Small space, lice, rats, smell of dead









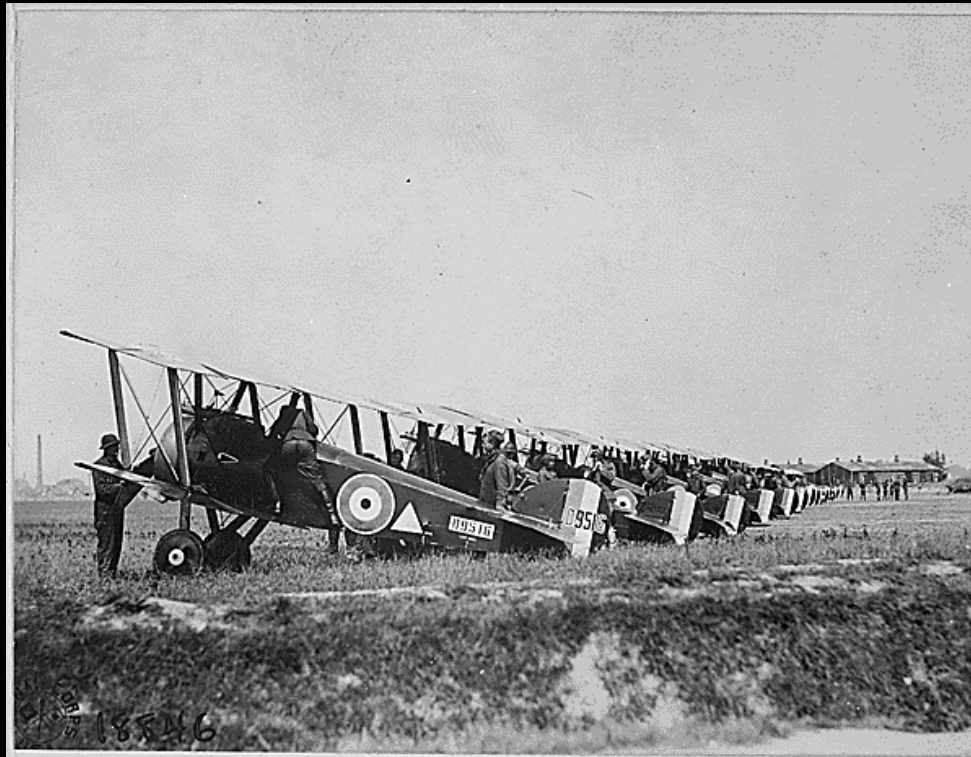
**Flame
Throwers**

**Grenade
Launchers**



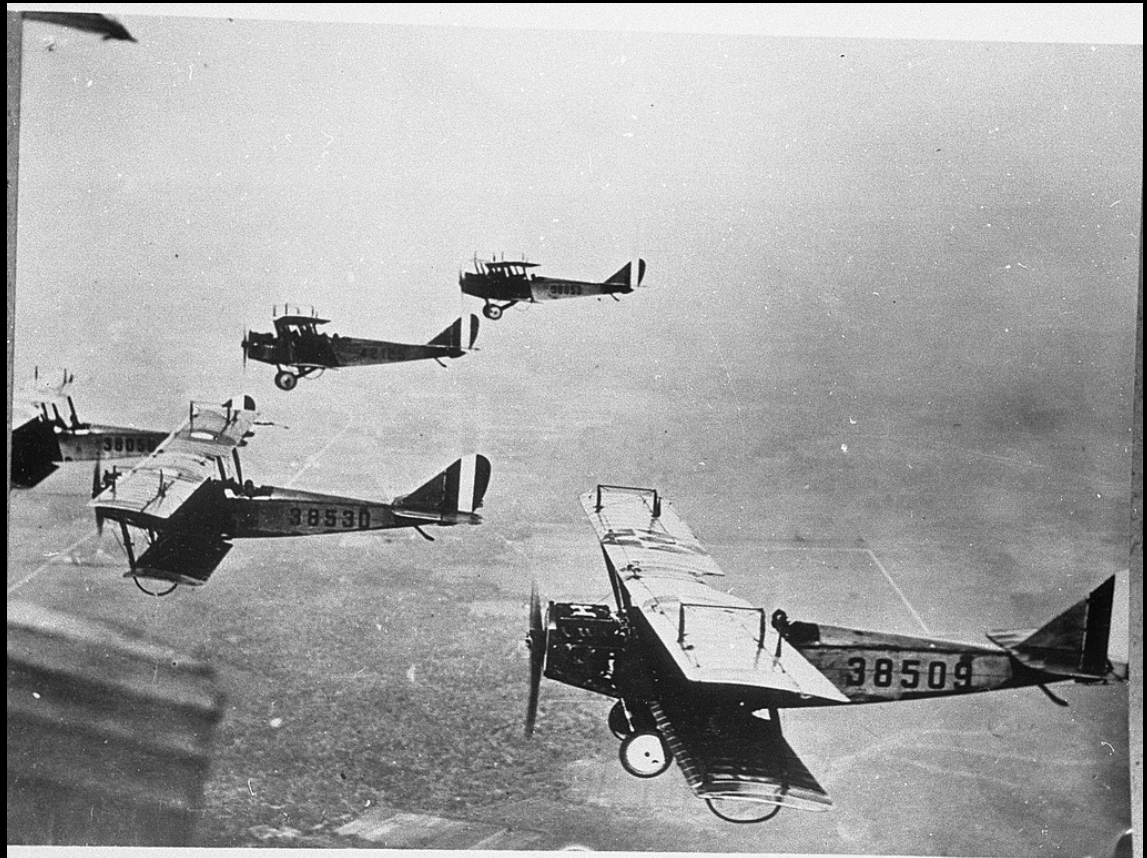
Aviation

- 1st time planes were used in a combat role
- Drop bombs and take pictures of enemy lines



Safety

- Royal Flying Crews (RFC) were not given parachutes. Why?
 - British high command believed that if a pilot was attacked they would be too quick to bail out of the plane if it was damaged.
 - More likely to try and land and save the airplane.
- What were they given instead of parachutes?
 - Pistol to commit suicide.
 - Fires were largest fear for pilots. (tendency to catch fire when shot)



Dangers

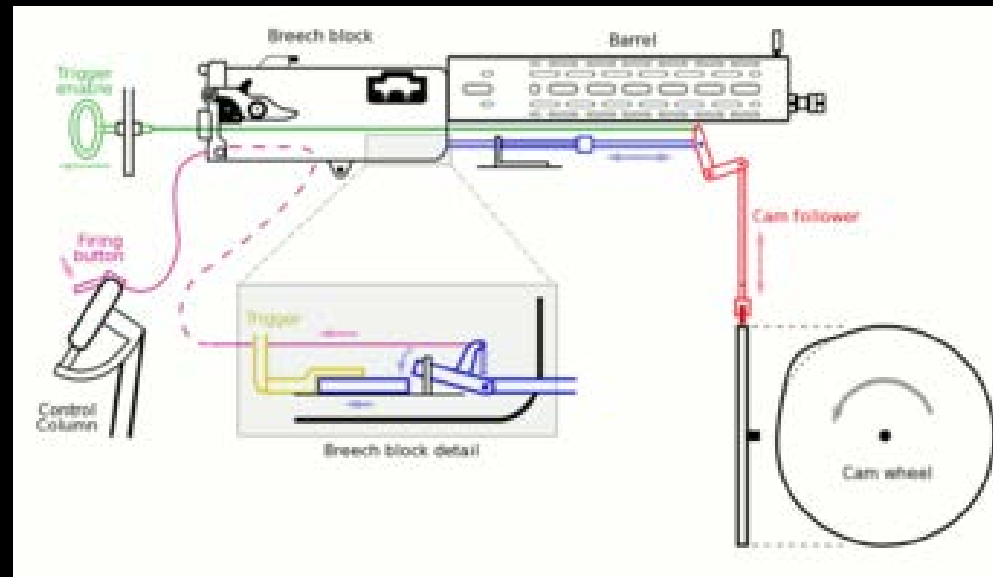
- Planes made out of wood and canvas
 - Tendency to break apart in midair during dogfights from stress
- Disintegration or jamming of machine gun



WWI Airplane Weapons

- Pilots first used small arms weapons to fight during observation missions at beginning of the war
 - Extremely inaccurate
- Eventually led to machine guns mounted on fuselage and fired through the propeller.
 - Much more accurate

Interrupter Design





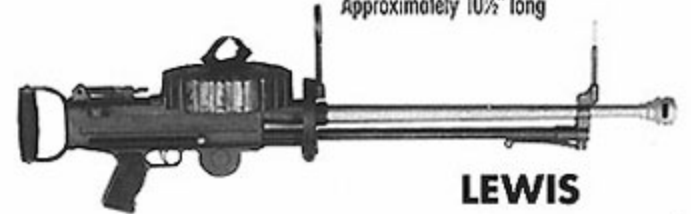
SPANDAU

Also available in GIANT SCALE
(3" = 1 foot)
Approximately 11" long



VICKERS

Also available in GIANT SCALE
(3" = 1 foot)
Approximately 10½" long



LEWIS



PARABELLUM

Spandau, Vickers and Parabellum kits include 6-inch long ammo belt. Belts available separately.



Bomber Machine Gunner

- Initially bombs were dropped by hand and aimed by the naked eye, but by the end of the war bombsights had been developed.

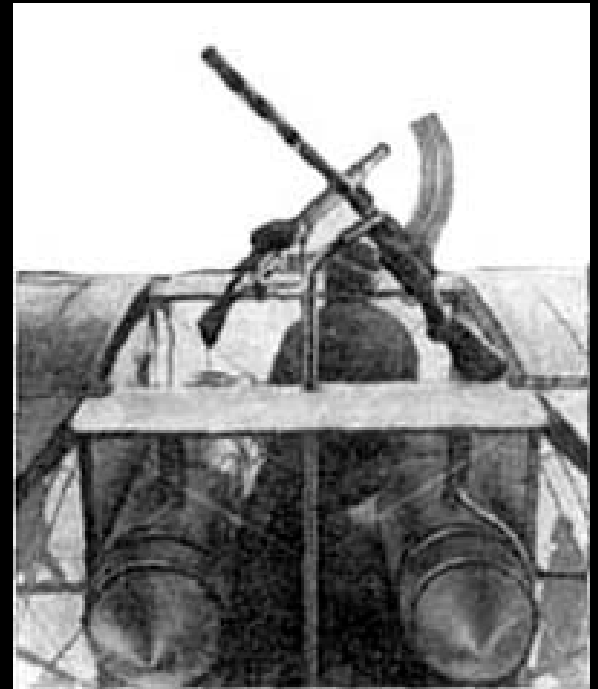


Germans used Airships as well for bombing



Russian Aviation

Sikorsky Ilya Muromets



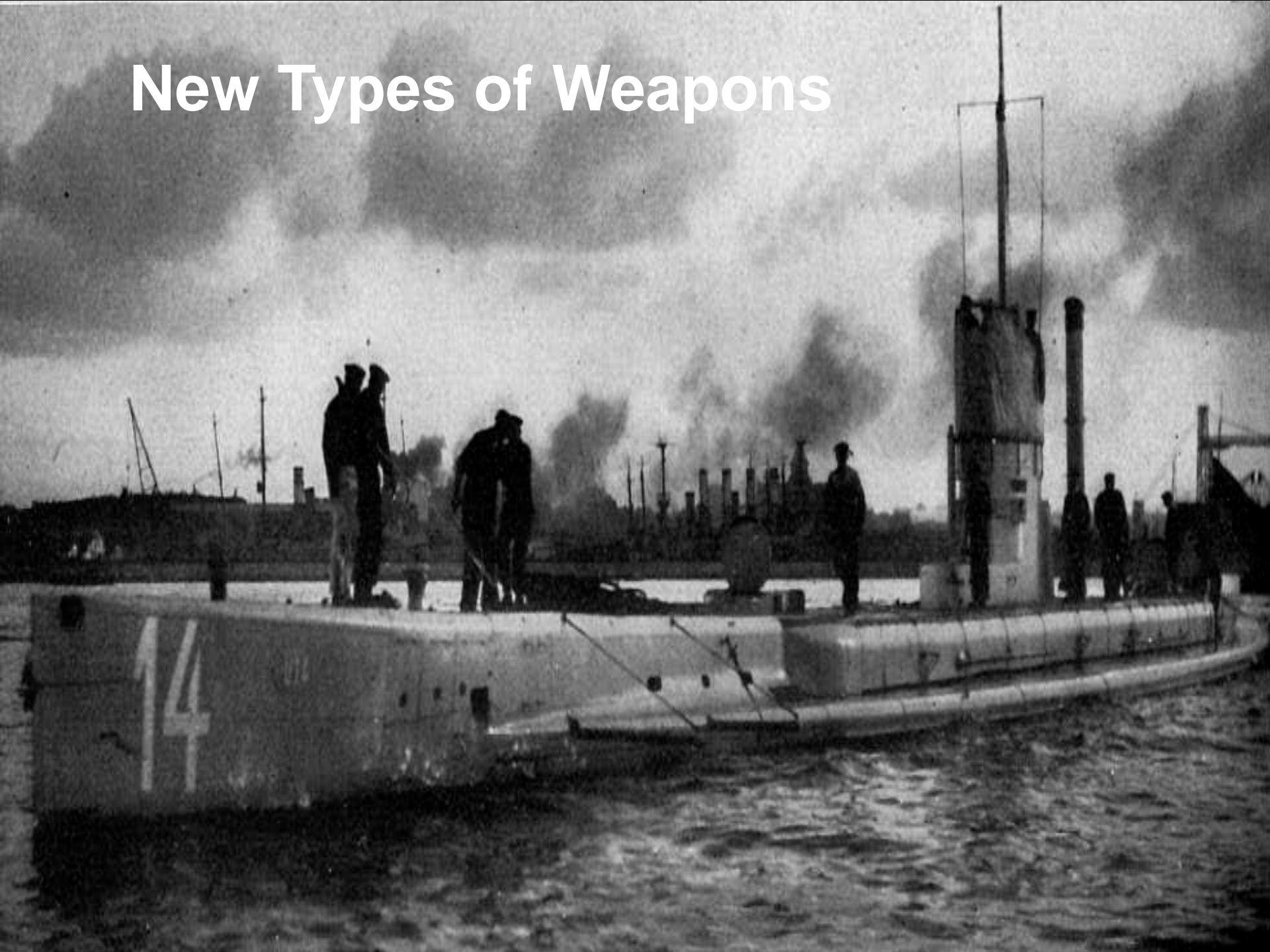


Submarines

- Warships
- Primary weapon – torpedoes (self-propelled underwater missiles)



New Types of Weapons



**Mystery of missing WW1
German submarines uncovered
after explorers find remains of
41 U-boats off UK coast (July
22nd, 2013)**



U-boat stranded
on the south
coast of England
in 1917





German Submarine, U. 118.
Washed Ashore at Hastings. 3



© ExclusivePix Submarine ashore at Hastings 15.9.19. Bow U.113



HASTINGS.



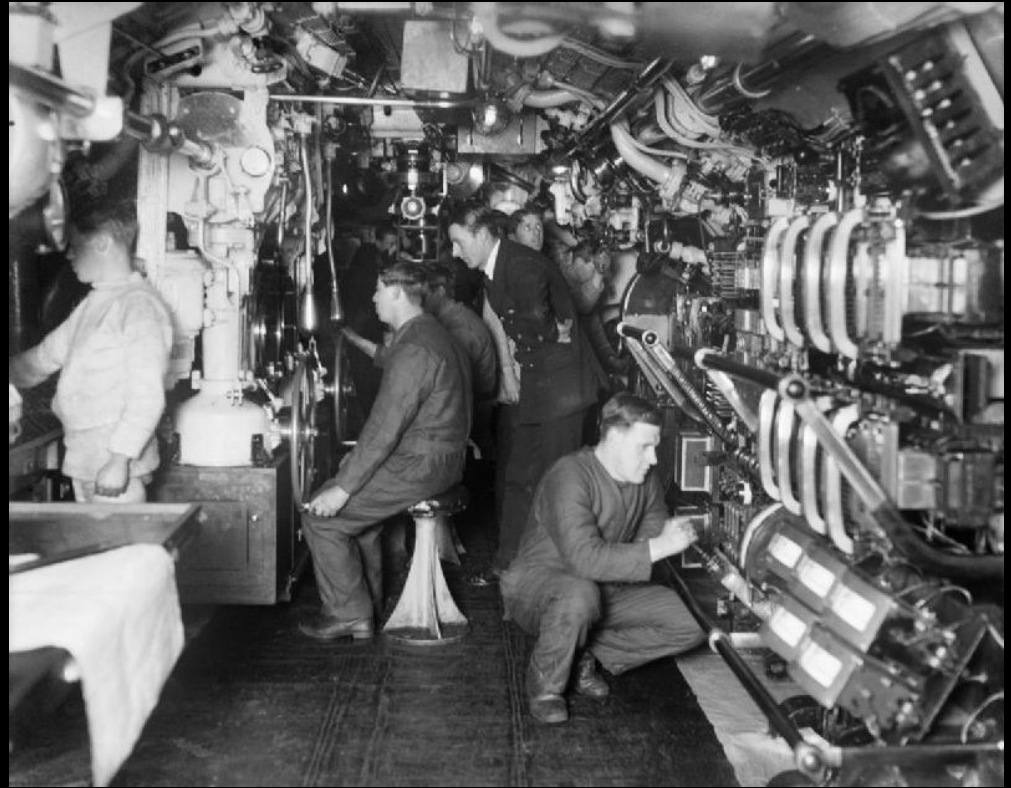
GERMAN SUBMARINE HASTINGS, I.

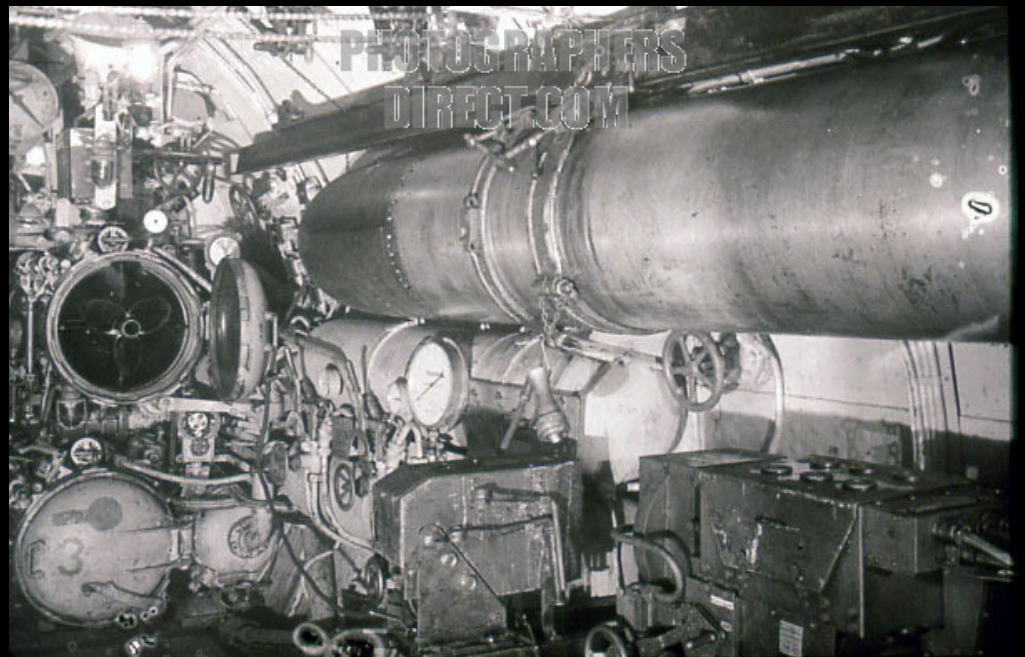
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Extremely dangerous

- Risks to the crew were enormous.
 - Torpedoes often misfired killing the crew, and aiming them was a difficult and uncertain process.
 - If they missed, the slow-moving vessels were easy prey for warships, which would ram them or use depth charges.

Nearly half of the 380 U-boats used by the German navy in World War I were lost.





Tanks

- Armored combat vehicles that moved on chain tracks





Poison Gas

- Chlorine, mustard
- Blinded enemy
- Destroyed respiratory organs, vomiting, blisters, internal and external bleeding, slow death



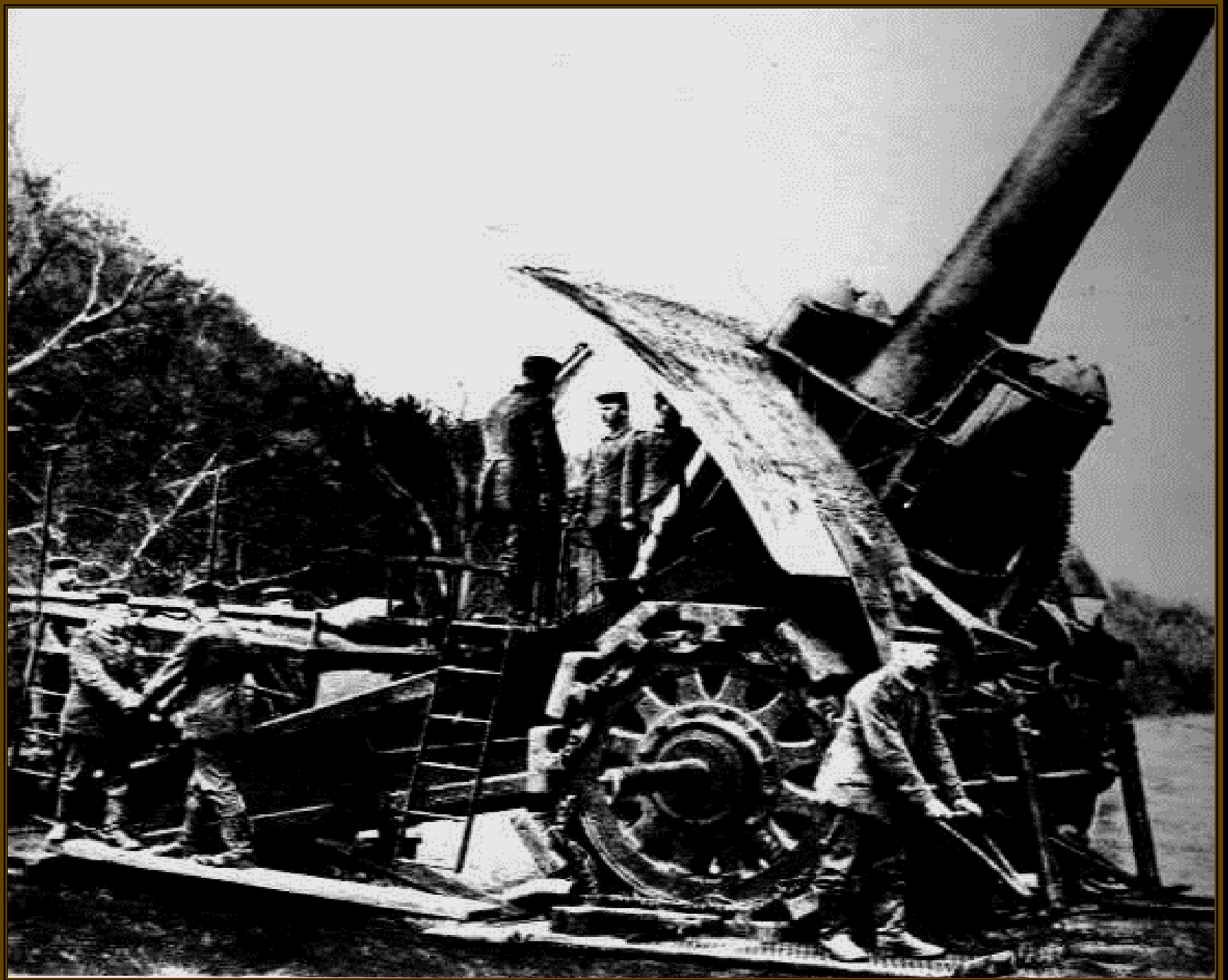


Machine Guns & Cannons

- Fires ammunition automatically
- Could wipe out waves of attackers and made it difficult for forces to advance

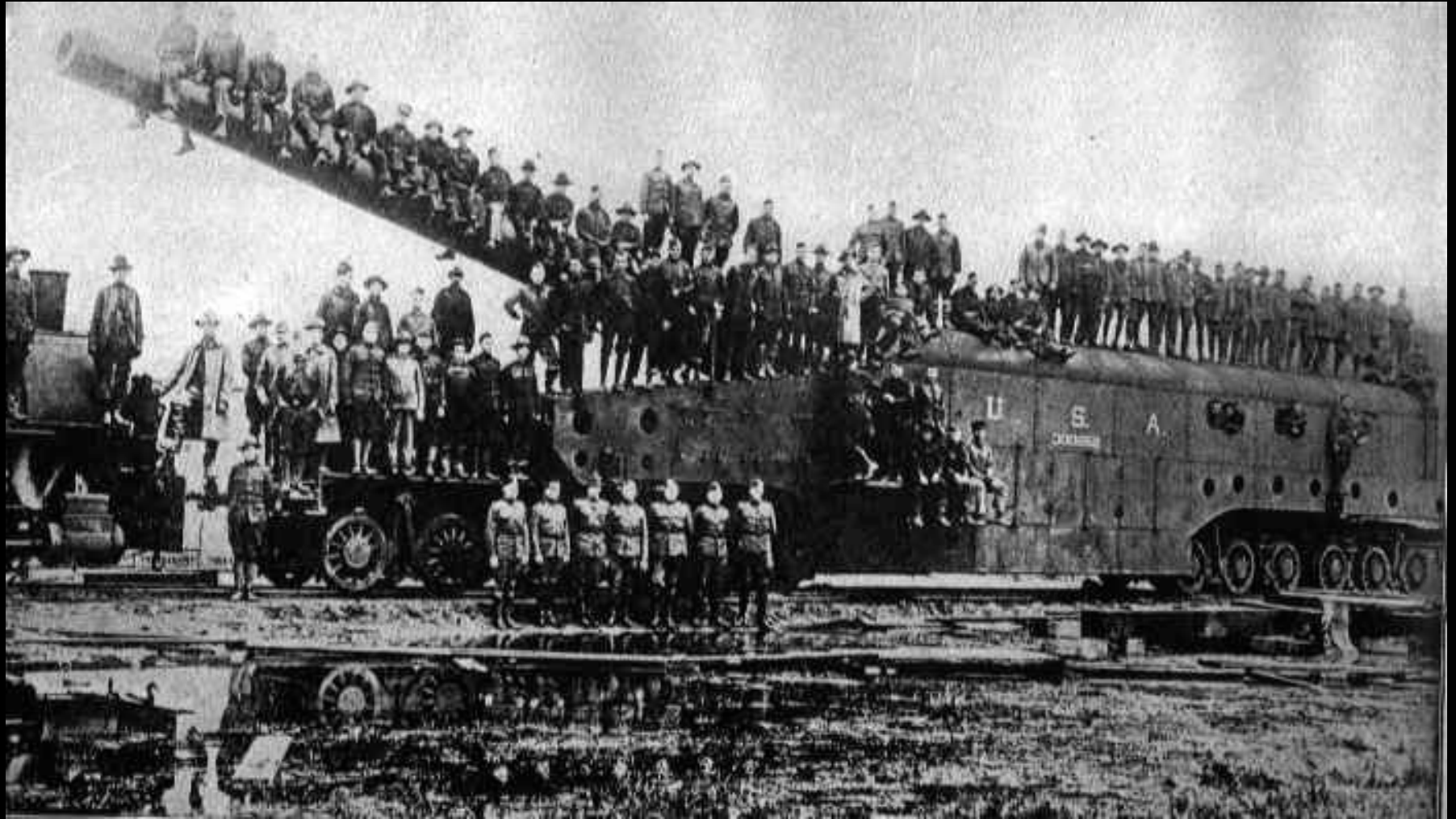


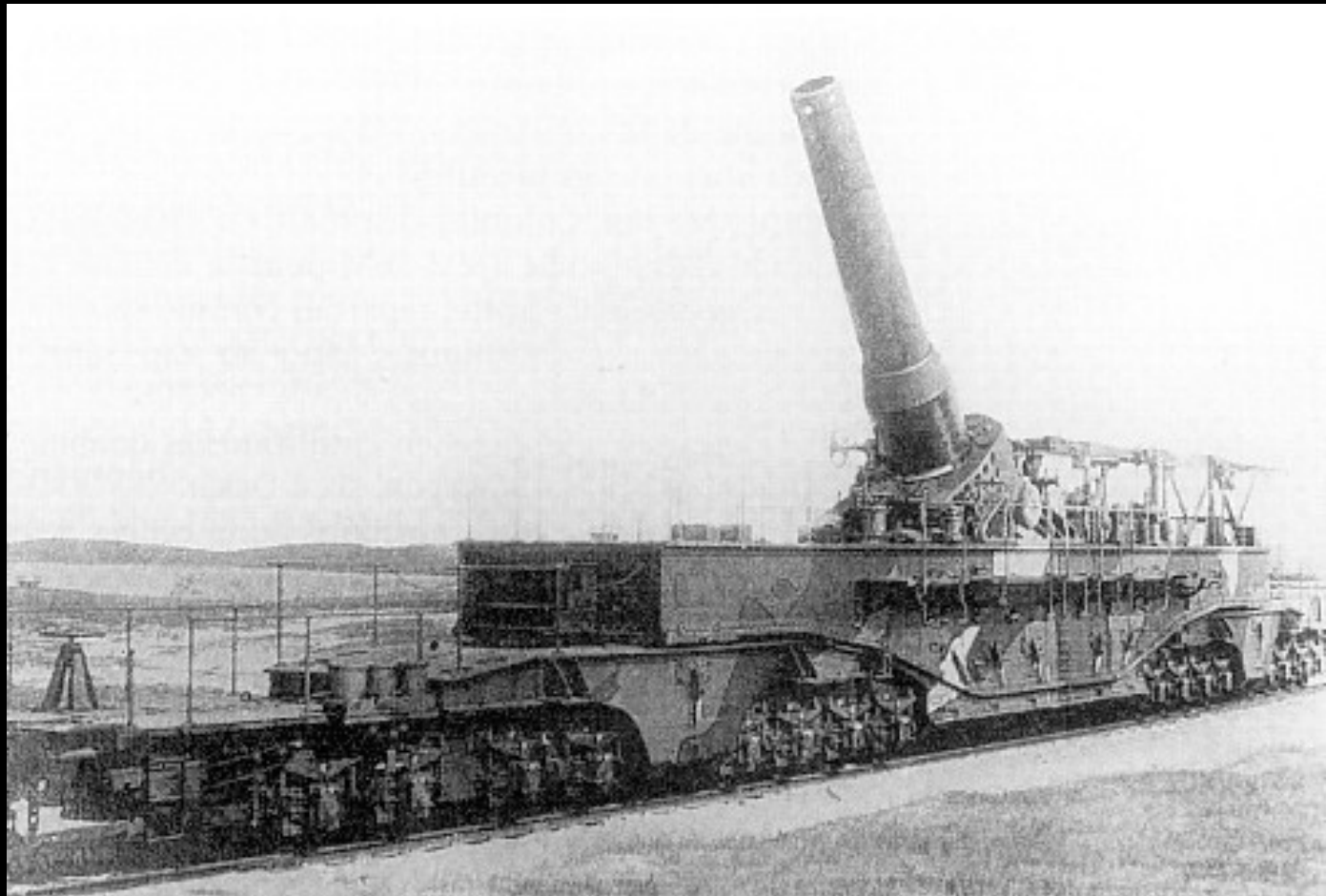






14 Inch Railroad Gun





NEW ENGLAND



14" HE Shell 16" AP Shell 16" AP Shell 14" AP Shell 14" AP Shell 14" AP Shot 14" AP Shot 12" AP Shell 12" DP Shell *1046. 12" DP Shell *700. 8" HE Shell

SHELLS, EXPLOSIVE AND OTHERWISE

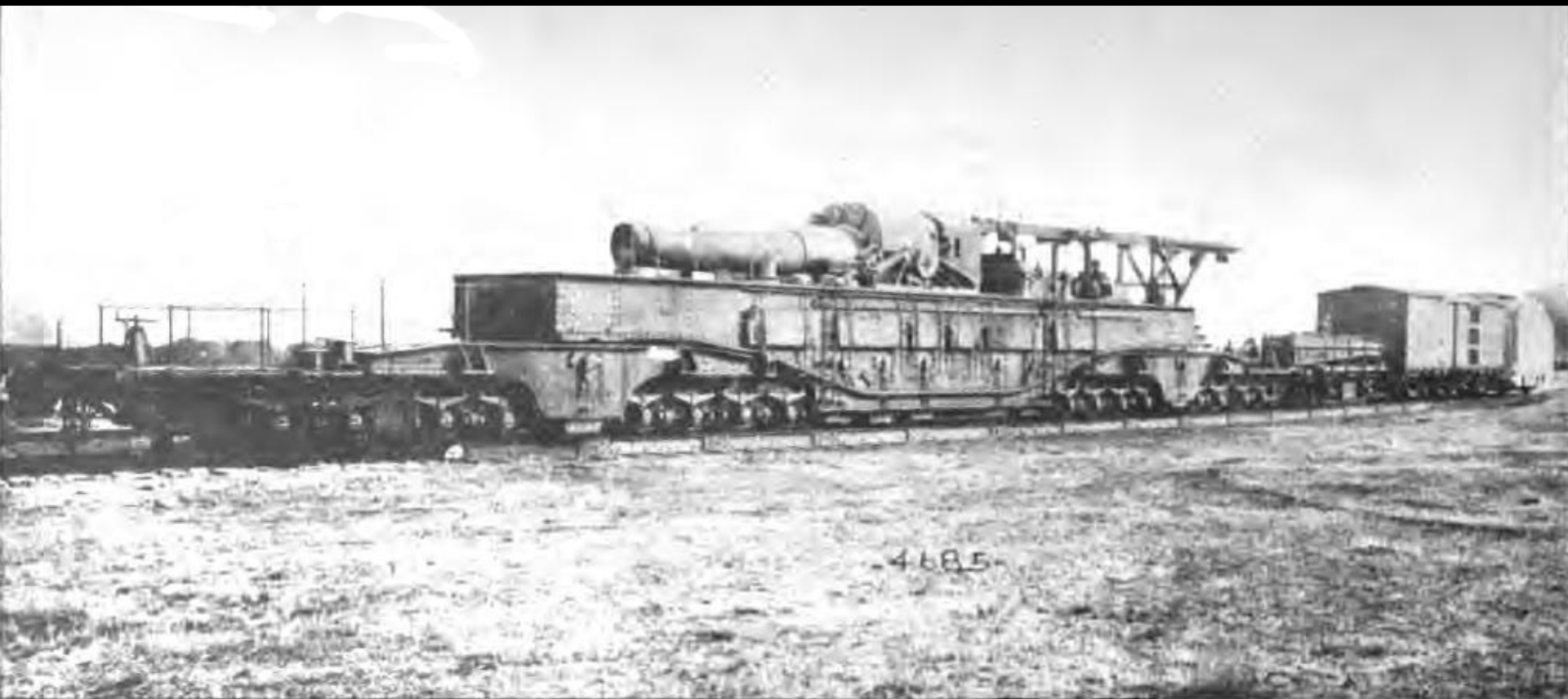
At the Watertown Arsenal near Boston, employees posed next to a row of World War I era artillery shells to show the massive size of the armaments. "AP" means armor-piercing, "DP" deck-piercing and "HE" high explosive. RG 236. Meanwhile, the U.S. Food Administration implored civilians to save other kinds of shells for use in the war effort, right. RG 4

FRUIT STONES
NUT SHELLS
WILL SAVE SOLDIERS' LIVES
LEAVE THEM HERE

ONLY THE FOLLOWING USE BY DATE	
THE TABLE	THE TABLE
Almonds	2
Walnuts	3
Peanuts	4
Cashews	5

GIVE EVERY ONE OF THESE THE PROPER CARE

French Schneider 520mm howitzer



CRADLE SLIDING RECOIL MOUNT FOR FRENCH 520-MM. HOWITZER.

- Shells weighed 3,646 lb and were 24 inches in diameter
- Range: 30 miles

Paris Gun

- Supergun
- Used as psychological terror on Parisians
 - Extremely loud as it screamed over the city
- Fired 236 lb shells
- Range: 75-81 miles

