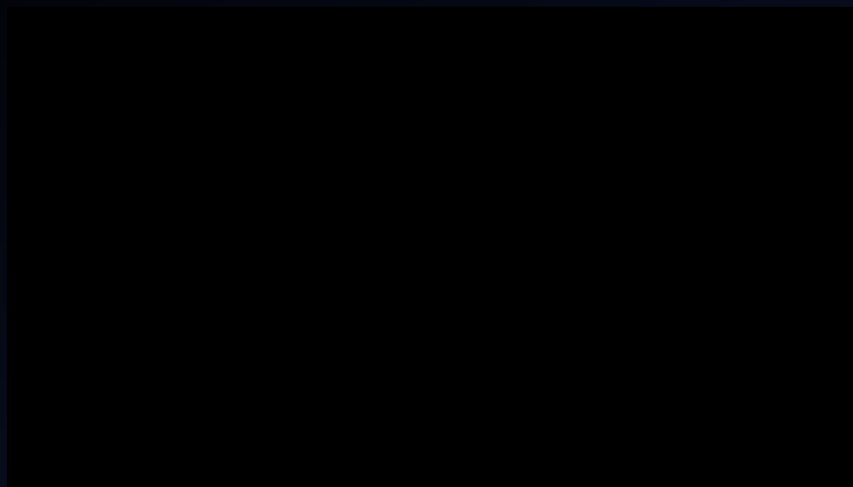


Weapons of World War I

THE WEAPONS THAT CHANGED THE WAR

BY DR. PAUL VICKERY
ORAL ROBERTS UNIVERSITY

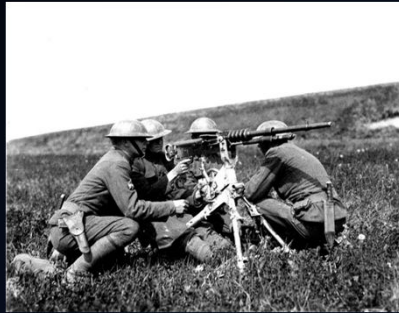
Introduction to Trench Warfare: Life in a Trench



[https://www.youtube.com/watch?v= G4ZY66BG38](https://www.youtube.com/watch?v=G4ZY66BG38)

Machine Guns

- 400-600 small-caliber rounds per minute (doubled by the end of the war)
- Required cooling and jammed frequently

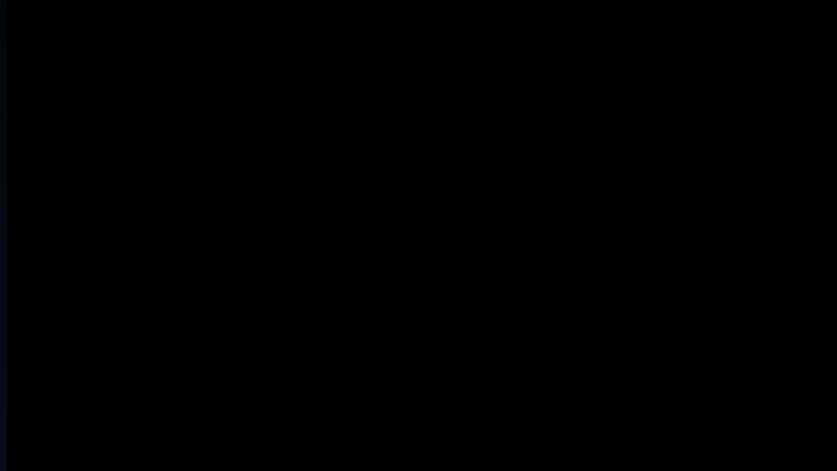


Machine Guns

- Single machine gun worth 60-100 rifles
- Best for defensive warfare
- Adapted for tanks and aircrafts



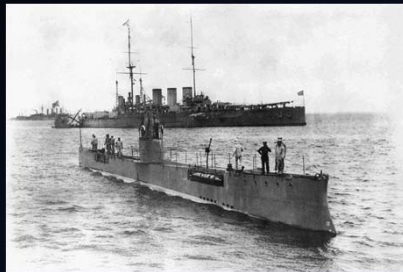
Trench Warfare: *All Quiet on the Western Front*



<https://www.youtube.com/watch?v=AI7m8TDBH2I>

Submarines

- Considered ineffective before WWI because there was no space to carry prisoners or enough sailors to man captured ships
- Germany began unrestricted submarine warfare in February 1915



Submarines



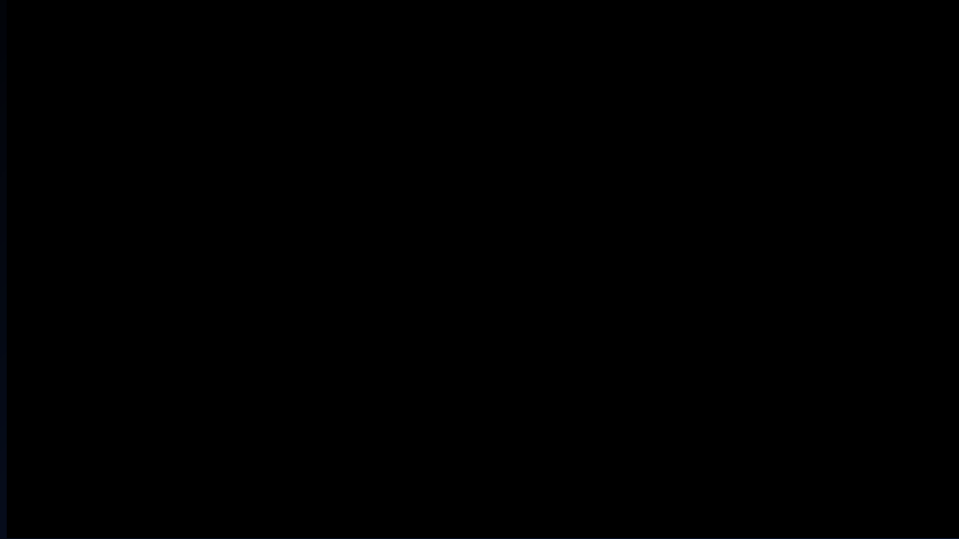
<https://www.youtube.com/watch?v=RCrzaC4aLPg>

Submarines

- Germany hit fifty ships between February and September including the *Lusitania* where 138 of the 1,198 lives lost were American
- The Allies used this disaster as propaganda



Submarines: Sinking of the *Lusitania*



<https://www.youtube.com/watch?v=9G8iU1KOjsg>

Poison Gas

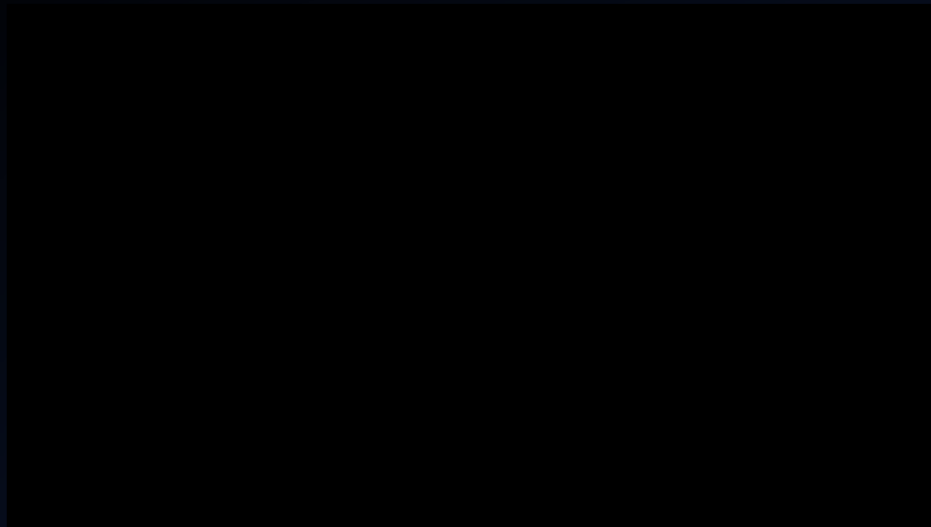
- Chlorine and Phosgene gases attacked the lungs; could be avoided with respirator
- Mustard gas attacked moist skin (eyes, armpits) and left painful, searing blisters



Poison Gas



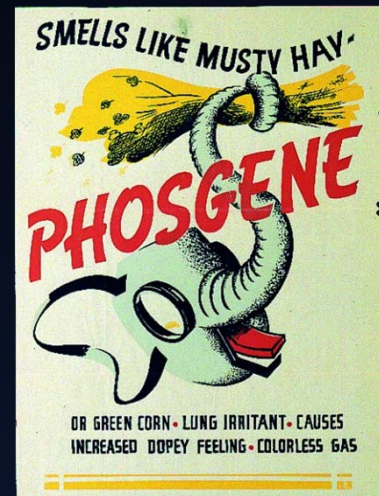
Poison Gas: Germans Release the First WMD | History



<https://www.youtube.com/watch?v=JHJlKnzVnc>

Effects of Phosgene Gas Poisoning

- Used as a choking agent
- Responsible for the majority of deaths in WWI
- Can damage the skin, eyes, nose, throat, and lungs
- Blurred vision, difficulty breathing, nausea and vomiting



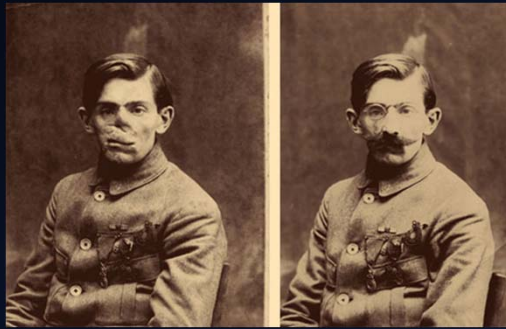
Effects of Chlorine Gas Poisoning

- Burning pain in throat and eyes

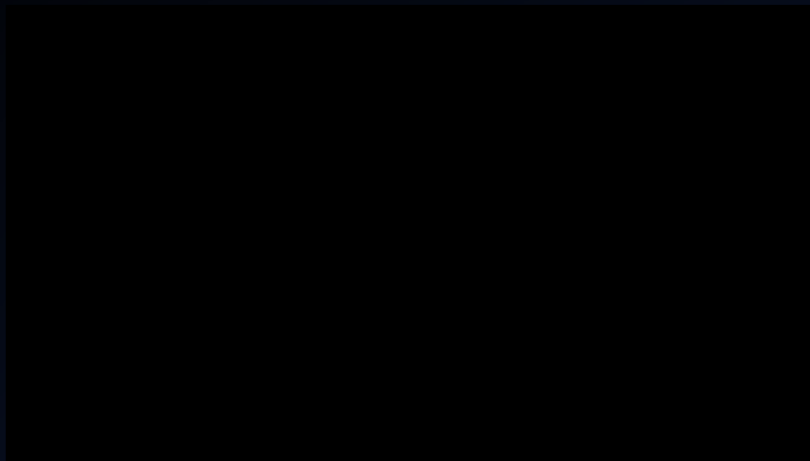


Effects of Mustard Gas Poisoning

- Blistering on contact with skin
- Altering DNA, cell death, delayed mutations, or cancer



Poison Gas: *All Quiet on the Western Front*



<https://www.youtube.com/watch?v=WoYWrgiAKwk>

Airplanes

- Constructed of wood, canvas, and wire
- Top speeds of 100 MPH
- Short life expectancy for pilots (no parachutes)



Airplanes

- Pilots wore silk scarves to prevent chaffing his neck while constantly twisting his head to look for enemies
- First used for reconnaissance photos



Airplanes: Dogfights | BBC



<https://www.youtube.com/watch?v=f85CDEpiMhQ>

Tanks

- Initially unable to cross trenches, extremely hot inside
- Increasingly used by Allied Forces in the summer of 1918

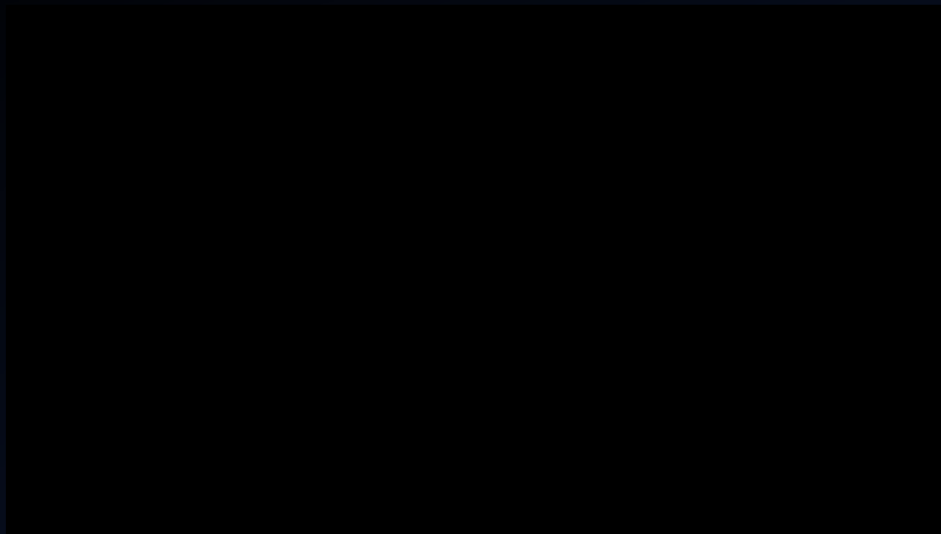


Tanks

- By the end of the war, the British had 2,636 tanks; France had over 3,870; Germany had 20
- Added movement and action to the redundant trench warfare



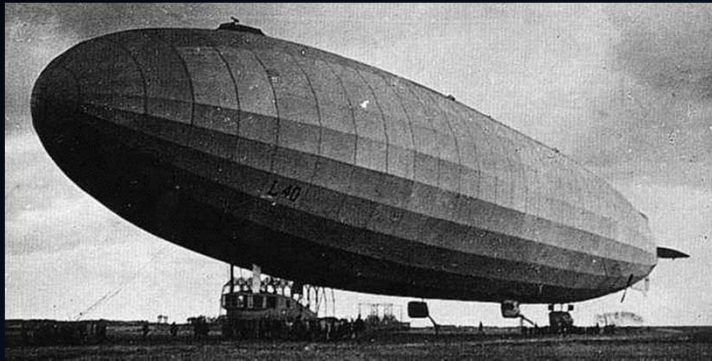
Tanks (no sound)



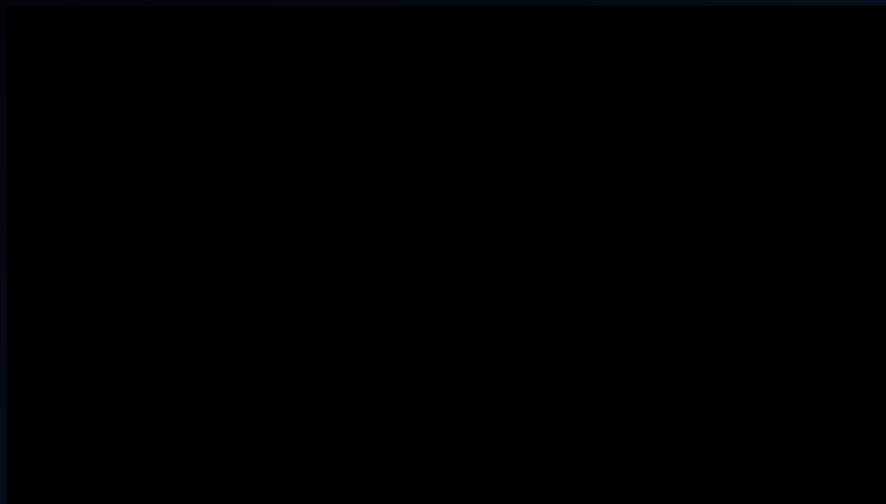
<https://www.youtube.com/watch?v=UVu05Mt-A30>

Other Weapons

- Zeppelin



Zeppelin LZ 4



<https://www.youtube.com/watch?v=hfaA4TrSPPA>

Other Weapons

- Stokes Mortar



Other Weapons

- Grenades



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