

I. Am Systems in the Revolutionary Period

- Jefferson, Madison.
- Monoalph subs - Exple in ltr to Wm Lee, John Jay to R. Morris
 - Jefferson's cylinder - History. Use?
 - Dictionary codes { Arabic num = page; a or b for col, rom num = line
Arthur Lee to Committee of Secret Correspondence
 - Codes ^{none prior to 1781 - Birmingham} { Arthur, Richard, Wm Lee - used 1771 ad of John Eutwick's new Spelling Dictionary - also sugg by John Jay
 - Secret inks ^{forms printed (1-1786) + two identical copies made. (Jeff's syllabary) 1789 - 1st official code of State Dept. - 1600 gps - 1785}

II British Systems in the Revolution

- Mono subs
- Vigenere
- Gulbs
- Dict. Code
- Codes - ^{subset words + give page lines} Arned. Adair's reason - Blackstone's Commentaries. 4 vols.
- Secret inks

III Federal Systems in Civil War - Began 1861

Grant - Beckwith episode. Grant went to Knoxville & left B behind, at Nashville

Mono subs

Dicks - mono & poly

Route transp.

Curiosities - Bates' remarks re interceptors - identifying op's feet, etc. tapping the lines, Bogus messages

IV Conf. Systems - Began 1862

Mono subs - ^{A=Z} rev alph. Beauregard after Battle of Shiloh

Vigenere with word lengths

V Period 1865-1917

Atti: Civil War use of crypt in military world ... to Jackson during Cong. period ... Franco-Spanish war, brief, 1. Sp-Am War

2. W.D. "Telegraphic Code to Increase Security in the Transmission of Telegrams." Compiled in 1885 - Pub. by GPO 1886

Based on Statist's Code 15,000 words

∴ Very little info re use of crypt during Spanish-American War. Prob. additive (fixed). Yardley episode

3. 1899 - CSO Understudy - prep of suitable tel code for official use. Security features. Worked personally by CSO. A temporary, expedient - WUTel Code

with "Preliminary War Dept Tel Code" of 4000

special words plus 2000. New War Dept Tel Code appeared. This led to in 1899 or so, by Jan 1900 -

but was used in connection with W.U. - 00001 to

78,000 in W.U., 78,001 - 100,000 in WD Tel Code

4. 1902 - "Cipher of the W.D." - Pub. by AG - Only one

5. 1906 - W.D. Tel Code 1906 - by CSO Hazely

6. { 1915 " " - Printed can find above

7. { Distribution Tables
~~that were made up - that were made~~
~~by the...~~

8. Cryptanalysis - Sig School - 1913 course in crypt. Mauborgne. Names to War Dept 1916
Mexican Expedition - Warkopf

9. Riverbank Labs. + Org of MI-8 (Van Deman).

Accomplishments of Riv. Labs.
Solutions until fall 1917

Training
Research + writing -

My commissioning
School in AEF

My commissioning
① Wheatstone
② ATOT

- 10- MI-8. Yardley, Manly
- Code ~~in~~ cipher compilation
 - Communications
 - Shorthand
 - Secret Ink
 - Code & cipher sol.

11. Code Compilation in AEF

Manual ciphers - Playfair. 5-ltr gps backward! Germans ¹⁹¹⁸

Cipher devices - Cipher desk

Codes. History. German. British

12. Radio Intelligence - AEF

92-A6 Capt. Moorman. no info, no records, Liaison with Br + French ^{28 July to 29 Oct 1917}

Sig C - Intercept began 29 Oct 1917 Am Str Gondrecourt. 1st msg was

Am. from practice msg of Army Sig School at Langres

German systems. ^{3-1/2 code} 3-1/2 ltr ADFGVX, DT, Fiar God.

Org of Rb Sec - First Army & Second Army.

1. Loc of enemy stns, d/f, OB

2. Int + sol of enemy ^{radio} msges

3. " " TPS + telephone, + airplane

4. Security of tel lines + codes

5. Dist. of our codes

~~Radio Sec~~

Adjutant.

Estimate of accomplishments

1919-1939 Period

Distribution of work: ¹⁹⁴₈₋₁₂

Formulation of policy

Asst Sig C cryptanalyst

Code Comp. 1921-29

Cypher Systems: ^{DT} M-94

Print 2el

Theoret studies & research - Hebern & heavy

Particip. in manoeuvres
Training, Writing, Lectures, Advice to Govt Depts. Int. Conf.

MI-8 in meantime - State War arrangement - Yardley

Intercept problems

Solutions

MI-8 Reorganization

Allbright

State - Stinson

An Blk Chamber

Integration of phases. Birth of SIS 24 Apr 1930

Code Prod Program 1930-39

Intro of IBM. memo of 30 Oct 1934

Dev of Crypto machinery

Training - ^{SI School} ext courses - Pamphlets, material, instruction

Research & Sol.

Intercept - Battery Cove 1931, Eighth CA, Pan, Haw

By Feb 1938 - 6 int-stus incl me at Monmouth

Solutions: 1st Jap 2/4 Ch code 1933. 1st Bulletin Apr 36
1938 Red

Overseas detachments
Liaison with navy - odd-even day basis.

Purple

Pearl Harbor

Move to AH - Change from SIS to SSA

CSO - G-2, rel